

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: P395655

Luminaire Tested: **I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395655
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-20L83050-1D-UNV-W2A-W-4 (3500K)
Description: CORELITE I3, OPEN TOP
2000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.2 lumens
Efficiency: N/A
Efficacy: 145.5 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

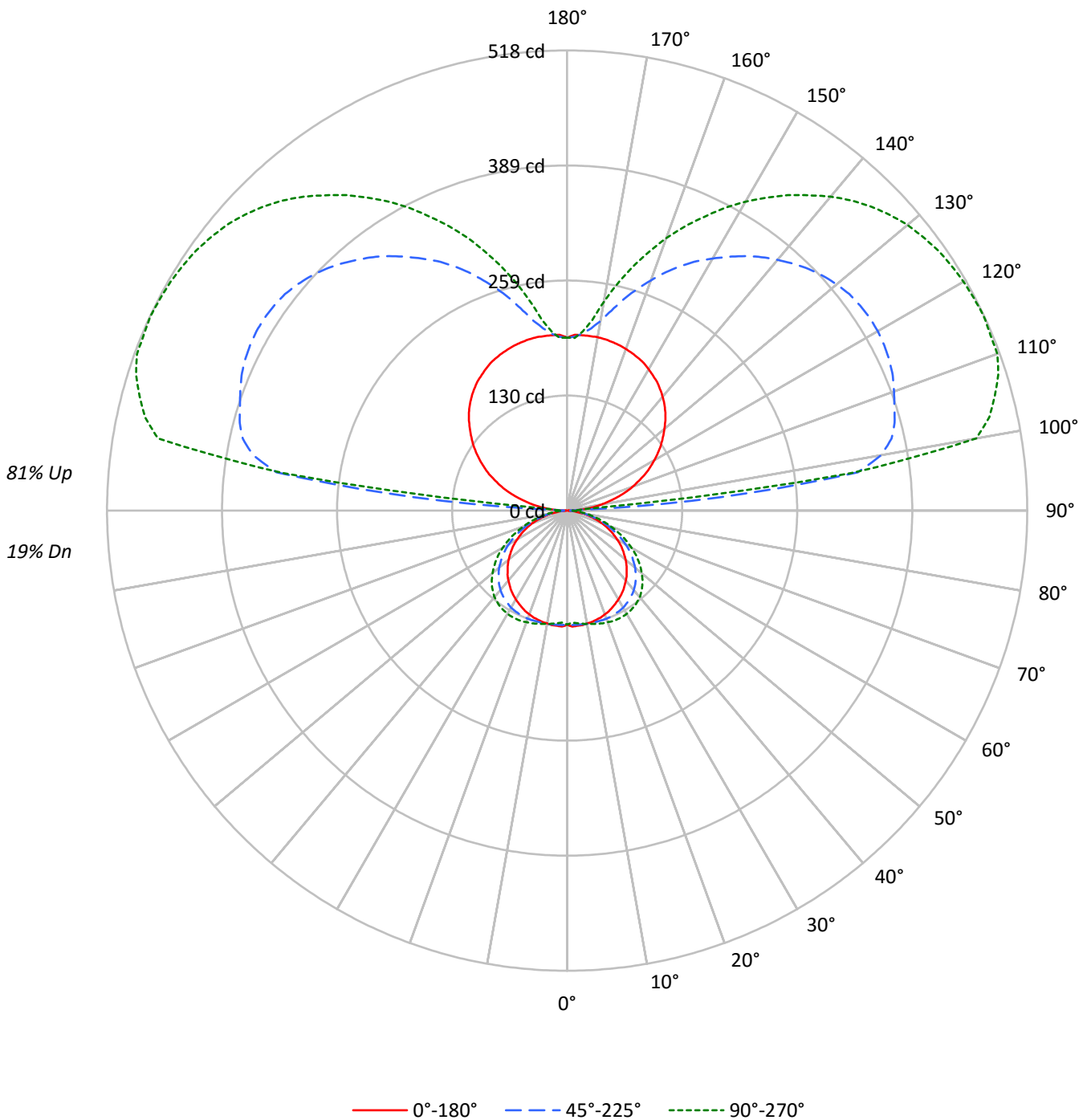
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-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°	706	706	706
5°	715	696	682
10°	715	690	683
15°	716	688	689
20°	716	691	697
25°	715	693	708
30°	716	694	714
35°	715	690	718
40°	712	685	713
45°	706	671	698
50°	700	649	672
55°	687	618	634
60°	667	573	583
65°	636	510	520
70°	601	442	439
75°	522	346	352
80°	416	250	254
85°	246	145	168



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.5
10°-20°	36.6	1.6
20°-30°	58.9	2.5
30°-40°	75.8	3.2
40°-50°	83.3	3.5
50°-60°	78.3	3.3
60°-70°	60.8	2.6
70°-80°	34.9	1.5
80°-90°	11.2	0.5
90°-100°	150.7	6.4
100°-110°	358.1	15.2
110°-120°	359.7	15.3
120°-130°	329.9	14.0
130°-140°	275.8	11.7
140°-150°	207.0	8.8
150°-160°	134.8	5.7
160°-170°	69.4	2.9
170°-180°	19.6	0.8
0°-30°	107.8	4.6
0°-40°	183.7	7.8
0°-60°	345.3	14.6
0°-90°	452.2	19.2
90°-120°	868.5	36.8
90°-150°	1681.3	71.3
90°-180°	1905.0	80.8
0°-180°	2357.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	128	128	128	128	128	
5°	130	129	129	128	127	12
15°	127	127	130	131	132	36
25°	120	121	128	133	135	56
35°	110	113	122	130	132	69
45°	95	99	109	117	120	73
55°	76	80	89	95	98	68
65°	53	56	62	67	69	53
75°	28	30	32	36	37	30
85°	6	7	9	12	13	7
90°	1	2	4	5	6	2
95°	20	168	173	23	20	20
105°	59	226	382	471	498	62
115°	97	254	400	487	518	95
125°	129	266	403	482	510	115
135°	156	264	385	457	484	120
145°	177	253	350	411	433	110
155°	189	232	304	348	365	87
165°	196	210	246	273	284	56
175°	198	198	200	202	202	19
180°	195	195	195	195	195	



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	130.7	130.1	129.5	129.5	129.0	129.0	129.0	128.4	128.4	128.4	129.0
5°	130.1	130.1	129.5	129.0	129.0	129.0	128.4	128.4	128.4	128.4	129.0
7.5°	130.1	129.5	129.0	129.0	128.4	128.4	128.4	128.4	128.4	128.4	129.0
10°	129.0	129.0	128.4	128.4	127.8	128.4	128.4	128.4	128.4	128.4	129.5
12.5°	128.4	128.4	127.8	127.2	127.2	127.2	127.8	127.8	127.8	128.4	129.5
15°	127.2	127.2	126.6	126.6	126.6	126.6	127.2	127.2	127.8	128.4	129.5
17.5°	126.1	126.1	125.5	125.5	125.5	126.1	126.1	126.6	127.2	128.4	129.5
20°	124.3	124.3	124.3	124.3	124.3	124.9	124.9	125.5	126.6	127.8	129.5
22.5°	122.6	122.6	122.6	122.6	122.6	123.2	123.7	124.9	125.5	127.2	129.0
25°	120.3	120.3	120.3	120.3	120.8	121.4	122.0	123.2	124.3	126.1	128.4
27.5°	117.9	118.5	118.5	118.5	119.1	119.7	120.3	121.4	123.2	125.5	127.2
30°	115.6	115.6	115.6	116.2	116.8	117.3	118.5	119.7	121.4	123.7	126.1
32.5°	112.7	112.7	113.3	113.3	114.4	115.0	116.2	117.9	119.7	122.0	124.3
35°	109.8	109.8	109.8	111.0	111.5	112.7	113.3	115.0	117.3	119.7	122.0
37.5°	106.3	106.9	106.9	107.5	108.6	109.8	110.4	112.7	115.0	117.3	119.7
40°	102.8	103.4	103.4	104.0	105.7	106.3	107.5	109.8	111.5	114.4	116.8
42.5°	99.3	99.3	99.9	100.5	102.2	102.8	104.0	106.3	108.6	111.0	113.3
45°	94.7	95.3	95.9	96.4	98.2	99.3	100.5	102.2	104.6	106.9	109.2
47.5°	90.6	90.6	91.2	92.4	94.1	95.3	95.9	98.2	99.9	102.2	104.6
50°	86.0	86.6	86.6	87.7	89.5	90.6	91.2	93.5	95.3	97.6	99.9
52.5°	80.8	81.3	81.9	83.1	84.8	86.0	86.6	88.3	90.0	92.4	94.1
55°	76.1	76.7	76.7	77.8	79.6	80.2	81.3	82.5	84.8	86.6	88.9
57.5°	70.9	71.5	71.5	72.6	73.8	74.9	75.5	77.3	79.0	80.8	82.5
60°	65.1	65.6	66.2	66.8	68.0	69.1	69.7	70.9	72.6	74.4	76.1
62.5°	59.3	59.8	60.4	61.0	62.2	62.7	63.3	65.1	66.2	68.0	69.1
65°	53.4	54.0	54.6	55.2	55.8	56.4	56.9	58.1	59.3	61.0	61.6
67.5°	47.6	48.2	48.2	48.8	49.4	50.0	50.5	51.7	52.3	54.0	54.6
70°	41.8	41.8	41.8	42.4	42.4	43.0	43.6	44.7	45.3	46.5	47.6
72.5°	34.9	35.4	35.4	35.4	36.0	36.6	37.2	37.8	38.3	38.9	40.1
75°	28.5	29.0	28.5	29.0	29.6	29.6	30.2	30.8	31.4	32.0	32.5
77.5°	22.7	22.1	22.7	22.7	23.2	23.2	23.2	23.8	25.0	25.0	26.1
80°	16.3	16.3	16.3	16.3	16.8	16.8	17.4	17.4	18.6	19.2	19.8
82.5°	10.5	10.5	11.0	11.0	11.0	11.6	11.6	12.2	12.8	13.4	13.9
85°	5.8	5.8	5.8	6.4	6.4	7.0	7.0	7.6	8.1	8.7	9.3
87.5°	1.7	2.3	2.9	2.9	3.5	3.5	4.1	4.1	5.2	5.8	6.4
90°	0.6	0.6	1.2	1.2	1.2	1.7	1.7	2.3	2.3	2.9	3.5
92.5°	9.9	23.2	48.2	72.0	62.2	58.1	34.9	10.5	9.3	9.9	9.9
95°	20.3	38.3	70.3	113.9	147.6	168.5	182.4	209.1	236.4	231.8	173.1
97.5°	29.6	49.4	84.8	124.9	171.4	195.2	213.2	245.2	280.0	309.1	330.0
100°	38.9	59.3	97.0	138.8	181.8	203.3	224.2	267.8	302.1	331.1	359.0
102.5°	48.8	69.1	108.1	151.6	194.0	214.9	235.3	273.6	312.0	346.8	374.1
105°	58.7	79.6	117.9	162.7	205.1	226.0	245.7	282.3	317.8	350.3	381.7
107.5°	69.1	88.9	126.6	171.4	213.8	234.7	254.5	291.0	325.3	357.9	386.3
110°	78.4	97.6	135.4	179.5	221.9	242.8	262.6	299.2	332.9	363.7	391.6



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	87.1	105.7	143.5	186.5	228.3	249.2	268.4	305.0	338.7	368.9	396.8
115°	97.0	113.3	151.6	192.9	234.1	254.5	273.6	309.6	343.3	373.0	400.3
117.5°	105.1	120.8	158.6	198.1	238.8	258.5	277.1	313.1	346.2	375.9	402.6
120°	113.3	127.8	165.0	202.7	242.3	261.4	280.0	315.4	348.6	377.6	403.8
122.5°	121.4	134.8	170.2	207.4	245.2	264.3	282.3	317.2	349.7	378.2	403.8
125°	129.0	140.6	174.9	210.9	246.9	265.5	282.9	317.2	349.1	377.0	402.6
127.5°	135.9	147.0	178.3	214.4	248.1	266.1	282.9	316.0	348.0	375.3	400.3
130°	142.9	152.8	181.8	216.1	249.2	265.5	281.8	313.7	345.1	372.4	396.2
132.5°	149.9	159.2	184.7	217.9	249.8	265.5	280.6	311.4	341.6	368.3	391.0
135°	156.3	163.8	187.6	219.0	249.2	264.3	278.3	307.3	336.4	362.5	384.6
137.5°	162.1	168.5	190.0	219.6	248.6	262.6	276.5	302.7	330.0	355.5	377.0
140°	167.3	173.1	191.1	219.6	246.3	260.3	273.0	298.0	323.0	347.4	368.3
142.5°	172.0	177.2	192.9	218.4	244.0	257.4	269.6	293.4	316.0	339.3	359.6
145°	176.6	180.7	194.0	217.9	241.1	253.3	264.9	287.6	309.6	330.6	349.7
147.5°	180.1	184.2	195.2	215.5	237.6	248.6	259.7	281.2	301.5	321.3	338.7
150°	183.6	187.1	195.8	213.2	233.5	243.4	253.3	273.6	293.4	311.4	327.6
152.5°	187.1	189.4	197.5	210.9	228.9	238.2	248.1	266.1	284.1	300.9	316.6
155°	189.4	191.1	198.1	208.6	224.2	232.4	240.5	257.4	273.6	289.3	303.8
157.5°	191.7	193.5	198.7	206.8	219.0	226.6	233.5	248.1	263.2	277.1	290.5
160°	193.5	194.6	198.7	205.7	214.4	219.6	226.0	239.3	252.1	264.3	275.9
162.5°	195.2	195.8	198.7	203.9	210.3	213.8	218.4	228.9	240.5	251.0	261.4
165°	196.4	196.9	198.7	202.7	206.8	209.7	212.0	219.6	228.3	237.6	246.3
167.5°	197.5	197.5	198.7	201.6	203.9	205.7	207.4	211.5	217.3	224.2	230.6
170°	198.1	198.1	198.7	200.4	202.2	202.7	203.9	206.2	209.1	212.6	216.7
172.5°	198.1	198.1	198.1	199.3	199.8	199.8	199.8	201.0	202.7	205.1	206.8
175°	198.1	197.5	197.5	198.1	197.5	197.5	197.5	197.5	198.1	199.3	199.8
177.5°	198.1	197.5	196.9	196.9	196.4	196.4	195.8	195.8	195.8	195.8	195.8
180°	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
2.5°	129.0	129.0	128.4	127.8	127.8	127.8	127.2	126.6	126.1	126.1
5°	129.0	129.0	128.4	128.4	128.4	128.4	127.8	127.8	127.2	127.2
7.5°	129.5	129.0	129.0	129.0	129.0	129.0	129.0	129.0	128.4	128.4
10°	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
12.5°	130.1	130.1	130.1	130.1	130.7	130.7	130.7	130.7	130.7	130.7
15°	130.1	130.7	131.3	131.3	131.3	131.9	131.9	131.9	131.9	131.9
17.5°	130.7	131.3	131.9	131.9	132.5	132.5	133.0	133.0	133.0	133.0
20°	130.7	131.3	131.9	132.5	133.0	133.0	133.6	134.2	134.2	133.6
22.5°	130.1	131.3	131.9	132.5	133.0	133.6	134.2	134.8	134.8	134.8
25°	129.5	130.7	131.9	133.0	133.0	133.6	134.8	134.8	134.8	134.8
27.5°	129.0	130.1	131.3	132.5	133.0	133.6	134.2	134.8	134.8	134.8
30°	127.8	129.5	130.7	131.9	132.5	133.0	133.6	134.2	134.2	134.2
32.5°	126.1	127.8	129.0	130.7	131.3	131.9	132.5	133.0	133.0	133.0
35°	124.3	126.1	127.2	129.0	129.5	130.1	131.3	131.3	131.9	131.9
37.5°	121.4	123.7	124.9	126.6	127.2	127.8	129.0	129.5	129.5	129.5
40°	118.5	120.8	122.0	123.7	124.3	124.9	126.1	126.6	127.2	127.2
42.5°	115.0	117.3	118.5	120.3	120.8	121.4	122.6	123.2	123.7	123.7
45°	111.5	113.3	114.4	116.2	117.3	117.3	118.5	119.1	119.7	119.7
47.5°	106.9	108.6	109.8	111.5	112.7	113.3	113.9	114.4	115.0	115.0
50°	101.7	103.4	105.1	106.3	107.5	107.5	108.6	109.2	109.8	109.8
52.5°	96.4	97.6	99.3	101.1	101.7	102.2	102.8	103.4	104.0	104.0
55°	90.6	91.8	93.5	94.7	95.3	95.9	96.4	97.0	97.6	97.6
57.5°	84.2	85.4	87.1	88.3	88.9	89.5	90.0	90.6	91.2	91.2
60°	77.3	78.4	80.2	81.3	81.9	81.9	83.1	83.7	83.7	83.7
62.5°	70.3	71.5	72.6	73.8	74.4	74.9	75.5	76.1	76.1	76.1
65°	63.3	64.5	65.6	66.2	66.8	66.8	67.4	68.0	68.6	68.6
67.5°	55.8	56.9	58.1	58.7	59.3	59.3	59.8	60.4	60.4	60.4
70°	48.2	48.8	50.0	50.5	51.1	51.1	52.3	52.3	52.3	52.3
72.5°	40.7	41.2	42.4	43.0	43.6	43.6	44.2	44.7	44.7	44.7
75°	33.7	34.3	34.9	36.0	36.0	36.0	36.6	37.2	37.2	37.2
77.5°	26.7	27.3	27.9	28.5	29.0	29.0	29.6	30.2	30.2	30.2
80°	20.3	20.9	21.5	22.1	22.1	22.7	22.7	23.2	23.2	23.2
82.5°	14.5	15.1	15.7	16.3	16.8	16.8	17.4	18.0	18.0	17.4
85°	9.9	11.0	11.6	12.2	12.2	12.2	12.8	13.4	13.4	12.8
87.5°	7.0	7.0	7.6	8.1	8.1	8.7	8.7	9.3	9.3	9.3
90°	4.1	4.1	4.6	4.6	5.2	5.2	5.2	5.8	5.8	5.8
92.5°	9.9	9.9	10.5	10.5	10.5	10.5	11.0	11.0	11.0	11.0
95°	105.7	47.6	40.1	24.4	23.2	20.3	19.8	20.3	20.3	19.8
97.5°	355.0	379.9	395.6	403.2	393.9	384.0	373.0	371.2	356.1	322.4
100°	382.8	402.6	421.8	435.1	440.3	445.0	455.5	461.8	464.7	467.7
102.5°	396.8	417.7	434.5	451.4	458.4	464.7	474.0	481.6	484.5	486.8
105°	409.0	430.5	449.1	464.2	470.6	476.4	485.7	492.6	497.9	498.4
107.5°	411.9	434.5	455.5	474.0	481.6	488.0	499.0	504.3	508.9	508.9
110°	417.1	438.6	457.8	474.6	482.2	489.7	501.3	509.5	514.1	515.3



TEST NUMBER: P395655

CATALOG NUMBER: I3-UL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	421.2	443.3	461.3	478.1	484.5	491.5	502.5	510.1	514.1	515.9
115°	424.7	446.2	464.2	479.9	486.8	493.8	504.8	511.2	515.9	517.6
117.5°	427.0	447.9	465.9	480.4	488.0	493.8	504.3	511.2	515.9	516.5
120°	427.6	448.5	465.9	480.4	486.8	493.2	503.7	510.6	515.3	515.3
122.5°	427.6	447.9	465.3	479.3	485.1	490.9	500.8	508.9	513.0	513.0
125°	425.2	445.6	462.4	476.4	482.2	487.4	497.9	505.4	509.5	510.1
127.5°	421.8	441.5	458.4	472.3	478.1	482.8	493.8	500.8	504.8	505.4
130°	417.1	436.9	453.1	466.5	472.3	477.5	486.8	494.4	499.0	500.2
132.5°	411.9	430.5	446.7	459.5	465.3	470.0	479.3	486.8	490.9	492.6
135°	405.5	422.9	438.6	451.4	457.2	461.8	470.6	478.1	482.2	483.9
137.5°	397.4	414.2	429.3	442.1	447.3	452.0	460.7	467.7	471.1	473.5
140°	388.1	403.8	419.4	431.1	436.3	440.9	448.5	456.0	459.5	461.3
142.5°	378.2	393.9	407.8	419.4	424.1	428.7	436.3	443.3	446.7	447.3
145°	367.7	382.8	395.6	406.7	410.7	415.4	422.3	429.3	432.8	433.4
147.5°	356.1	370.1	382.3	392.7	397.4	400.8	407.2	413.6	417.1	417.7
150°	342.8	355.5	366.6	377.0	381.1	384.6	391.6	397.4	400.8	401.4
152.5°	330.0	342.2	351.5	360.8	364.8	368.3	374.1	379.9	383.4	384.0
155°	316.6	327.6	336.9	344.5	348.0	351.5	356.1	361.3	364.2	364.8
157.5°	302.7	313.1	321.3	328.2	331.7	334.6	338.7	343.3	345.1	346.2
160°	287.6	296.3	303.2	310.2	313.1	316.0	320.1	323.6	325.9	326.5
162.5°	271.3	278.8	284.7	291.0	292.8	295.1	299.2	302.7	304.4	305.0
165°	254.5	261.4	266.6	271.9	273.0	274.8	277.7	281.2	282.3	283.5
167.5°	237.6	243.4	246.9	251.5	253.3	254.5	257.4	259.7	260.8	261.4
170°	221.3	225.4	228.3	231.8	232.4	234.1	235.9	238.2	238.8	238.8
172.5°	208.6	210.3	212.0	213.2	213.8	214.4	215.5	216.1	216.1	216.1
175°	200.4	201.6	201.6	202.2	202.2	202.2	202.2	202.2	202.2	202.2
177.5°	195.8	195.8	195.8	195.2	195.2	195.2	195.2	194.6	194.6	194.6
180°	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6	194.6

(END OF REPORT)