

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: P395671

Luminaire Tested: **I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395671  
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 (5000K)  
Description: CORELITE I3, OPEN TOP  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2201.7 lumens  
Efficiency: N/A  
Efficacy: 130.3 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

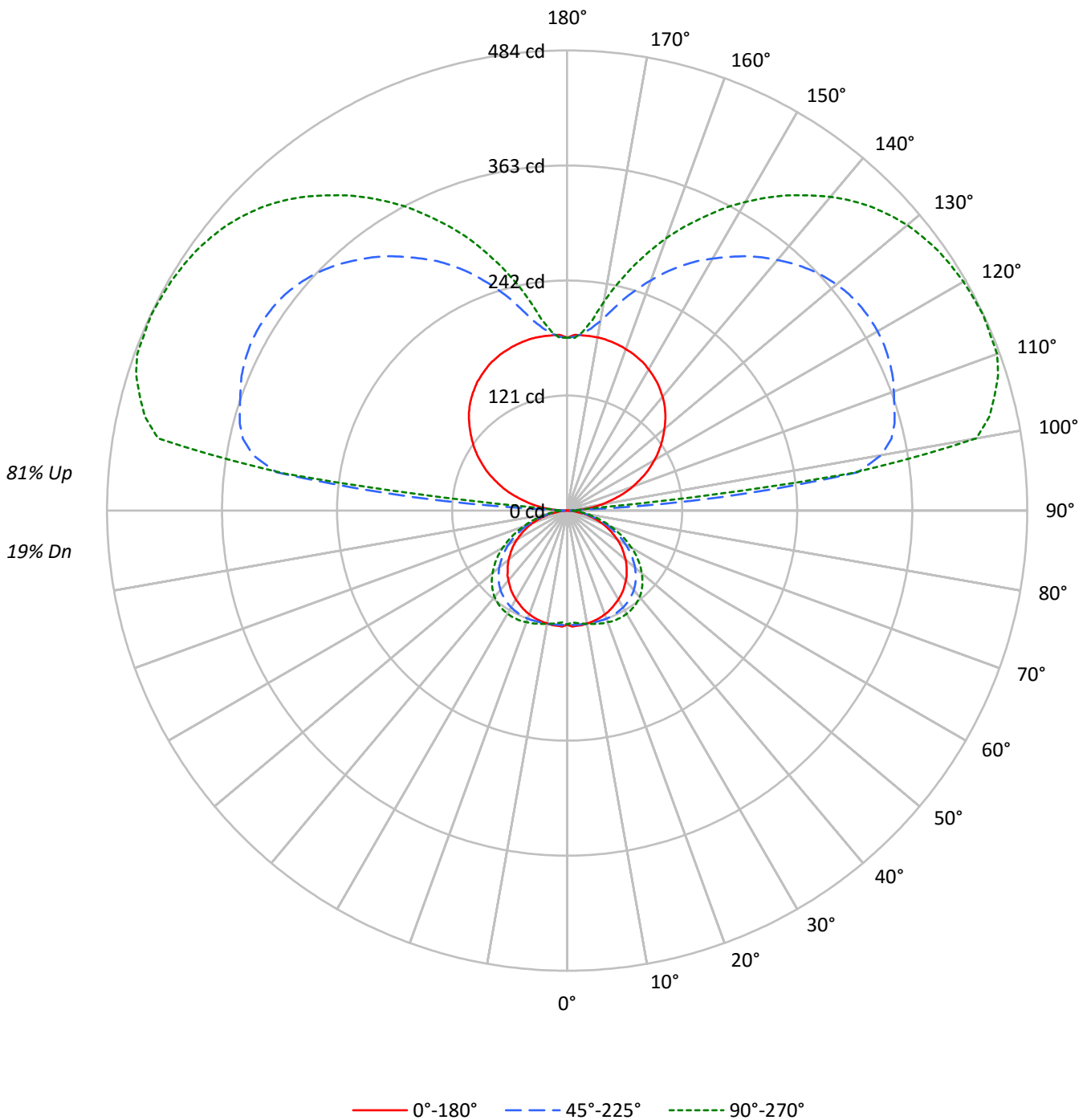
Input Watts (W): 16.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	659	659	659
5°	668	650	637
10°	668	645	638
15°	668	643	644
20°	669	645	651
25°	668	647	661
30°	669	648	667
35°	669	644	670
40°	665	640	666
45°	659	626	652
50°	654	606	628
55°	642	577	592
60°	622	535	544
65°	595	476	485
70°	563	413	409
75°	487	324	328
80°	388	232	238
85°	229	136	156



TEST NUMBER: P395671

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.5	0.5
10°-20°	34.2	1.6
20°-30°	55.0	2.5
30°-40°	70.8	3.2
40°-50°	77.8	3.5
50°-60°	73.1	3.3
60°-70°	56.8	2.6
70°-80°	32.6	1.5
80°-90°	10.4	0.5
90°-100°	140.7	6.4
100°-110°	334.5	15.2
110°-120°	336.0	15.3
120°-130°	308.1	14.0
130°-140°	257.6	11.7
140°-150°	193.4	8.8
150°-160°	125.9	5.7
160°-170°	64.8	2.9
170°-180°	18.3	0.8
0°-30°	100.7	4.6
0°-40°	171.6	7.8
0°-60°	322.5	14.6
0°-90°	422.3	19.2
90°-120°	811.2	36.8
90°-150°	1570.3	71.3
90°-180°	1779.0	80.8
0°-180°	2201.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	120	120	120	120	120	
5°	122	120	120	120	119	12
15°	119	118	121	123	123	34
25°	112	113	120	124	126	52
35°	103	105	114	121	123	64
45°	88	93	102	110	112	68
55°	71	75	83	89	91	63
65°	50	53	58	62	64	49
75°	27	28	30	34	35	28
85°	5	6	9	11	12	6
90°	0	2	3	5	5	2
95°	19	157	162	22	18	19
105°	55	211	356	440	466	58
115°	91	238	374	455	484	89
125°	120	248	376	450	476	108
135°	146	247	359	427	452	112
145°	165	237	327	384	405	103
155°	177	217	284	325	341	82
165°	183	196	230	255	265	52
175°	185	184	187	189	189	18
180°	182	182	182	182	182	



TEST NUMBER: P395671

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9
2.5°	122.1	121.5	121.0	121.0	120.5	120.5	120.5	119.9	119.9	119.9	120.5
5°	121.5	121.5	121.0	120.5	120.5	120.5	119.9	119.9	119.9	119.9	120.5
7.5°	121.5	121.0	120.5	120.5	119.9	119.9	119.9	119.9	119.9	119.9	120.5
10°	120.5	120.5	119.9	119.9	119.4	119.9	119.9	119.9	119.9	119.9	121.0
12.5°	119.9	119.9	119.4	118.8	118.8	118.8	119.4	119.4	119.4	119.9	121.0
15°	118.8	118.8	118.3	118.3	118.3	118.3	118.8	118.8	119.4	119.9	121.0
17.5°	117.7	117.7	117.2	117.2	117.2	117.7	117.7	118.3	118.8	119.9	121.0
20°	116.1	116.1	116.1	116.1	116.1	116.7	116.7	117.2	118.3	119.4	121.0
22.5°	114.5	114.5	114.5	114.5	114.5	115.0	115.6	116.7	117.2	118.8	120.5
25°	112.3	112.3	112.3	112.3	112.9	113.4	113.9	115.0	116.1	117.7	119.9
27.5°	110.1	110.7	110.7	110.7	111.2	111.8	112.3	113.4	115.0	117.2	118.8
30°	108.0	108.0	108.0	108.5	109.1	109.6	110.7	111.8	113.4	115.6	117.7
32.5°	105.3	105.3	105.8	105.8	106.9	107.4	108.5	110.1	111.8	113.9	116.1
35°	102.6	102.6	102.6	103.6	104.2	105.3	105.8	107.4	109.6	111.8	113.9
37.5°	99.3	99.8	99.8	100.4	101.5	102.6	103.1	105.3	107.4	109.6	111.8
40°	96.0	96.6	96.6	97.1	98.8	99.3	100.4	102.6	104.2	106.9	109.1
42.5°	92.8	92.8	93.3	93.9	95.5	96.0	97.1	99.3	101.5	103.6	105.8
45°	88.4	89.0	89.5	90.1	91.7	92.8	93.9	95.5	97.7	99.8	102.0
47.5°	84.6	84.6	85.2	86.3	87.9	89.0	89.5	91.7	93.3	95.5	97.7
50°	80.3	80.8	80.8	81.9	83.6	84.6	85.2	87.4	89.0	91.2	93.3
52.5°	75.4	76.0	76.5	77.6	79.2	80.3	80.8	82.5	84.1	86.3	87.9
55°	71.1	71.6	71.6	72.7	74.3	74.9	76.0	77.0	79.2	80.8	83.0
57.5°	66.2	66.7	66.7	67.8	68.9	70.0	70.5	72.2	73.8	75.4	77.0
60°	60.8	61.3	61.9	62.4	63.5	64.6	65.1	66.2	67.8	69.5	71.1
62.5°	55.3	55.9	56.4	57.0	58.1	58.6	59.1	60.8	61.9	63.5	64.6
65°	49.9	50.5	51.0	51.5	52.1	52.6	53.2	54.3	55.3	57.0	57.5
67.5°	44.5	45.0	45.0	45.6	46.1	46.7	47.2	48.3	48.8	50.5	51.0
70°	39.1	39.1	39.1	39.6	39.6	40.2	40.7	41.8	42.3	43.4	44.5
72.5°	32.6	33.1	33.1	33.1	33.6	34.2	34.7	35.3	35.8	36.4	37.4
75°	26.6	27.1	26.6	27.1	27.7	27.7	28.2	28.8	29.3	29.8	30.4
77.5°	21.2	20.6	21.2	21.2	21.7	21.7	21.7	22.2	23.3	23.3	24.4
80°	15.2	15.2	15.2	15.2	15.7	15.7	16.3	16.3	17.4	17.9	18.4
82.5°	9.8	9.8	10.3	10.3	10.3	10.9	10.9	11.4	11.9	12.5	13.0
85°	5.4	5.4	5.4	6.0	6.0	6.5	6.5	7.1	7.6	8.1	8.7
87.5°	1.6	2.2	2.7	2.7	3.3	3.3	3.8	3.8	4.9	5.4	6.0
90°	0.5	0.5	1.1	1.1	1.1	1.6	1.6	2.2	2.2	2.7	3.3
92.5°	9.2	21.7	45.0	67.3	58.1	54.3	32.6	9.8	8.7	9.2	9.2
95°	19.0	35.8	65.7	106.3	137.8	157.4	170.4	195.3	220.8	216.5	161.7
97.5°	27.7	46.1	79.2	116.7	160.1	182.3	199.1	229.0	261.5	288.7	308.2
100°	36.4	55.3	90.6	129.7	169.8	189.9	209.4	250.1	282.1	309.3	335.3
102.5°	45.6	64.6	100.9	141.6	181.2	200.8	219.8	255.6	291.4	323.9	349.4
105°	54.8	74.3	110.1	151.9	191.5	211.1	229.5	263.7	296.8	327.2	356.5
107.5°	64.6	83.0	118.3	160.1	199.7	219.2	237.7	271.8	303.9	334.2	360.8
110°	73.3	91.2	126.4	167.7	207.3	226.8	245.3	279.4	310.9	339.7	365.7



TEST NUMBER: P395671

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	81.4	98.8	134.0	174.2	213.2	232.8	250.7	284.9	316.3	344.5	370.6
115°	90.6	105.8	141.6	180.1	218.7	237.7	255.6	289.2	320.7	348.3	373.8
117.5°	98.2	112.9	148.1	185.0	223.0	241.5	258.8	292.5	323.4	351.1	376.0
120°	105.8	119.4	154.1	189.4	226.3	244.2	261.5	294.6	325.6	352.7	377.1
122.5°	113.4	125.9	159.0	193.7	229.0	246.9	263.7	296.3	326.6	353.2	377.1
125°	120.5	131.3	163.3	197.0	230.6	248.0	264.2	296.3	326.1	352.1	376.0
127.5°	127.0	137.3	166.6	200.2	231.7	248.5	264.2	295.2	325.0	350.5	373.8
130°	133.5	142.7	169.8	201.8	232.8	248.0	263.2	293.0	322.3	347.8	370.0
132.5°	140.0	148.7	172.5	203.5	233.3	248.0	262.1	290.8	319.0	344.0	365.2
135°	146.0	153.0	175.3	204.6	232.8	246.9	259.9	287.0	314.2	338.6	359.2
137.5°	151.4	157.4	177.4	205.1	232.2	245.3	258.3	282.7	308.2	332.1	352.1
140°	156.3	161.7	178.5	205.1	230.1	243.1	255.0	278.4	301.7	324.5	344.0
142.5°	160.6	165.5	180.1	204.0	227.9	240.4	251.8	274.0	295.2	316.9	335.9
145°	164.9	168.7	181.2	203.5	225.2	236.6	247.4	268.6	289.2	308.7	326.6
147.5°	168.2	172.0	182.3	201.3	221.9	232.2	242.5	262.6	281.6	300.1	316.3
150°	171.5	174.7	182.9	199.1	218.1	227.3	236.6	255.6	274.0	290.8	306.0
152.5°	174.7	176.9	184.5	197.0	213.8	222.5	231.7	248.5	265.3	281.1	295.7
155°	176.9	178.5	185.0	194.8	209.4	217.0	224.6	240.4	255.6	270.2	283.8
157.5°	179.1	180.7	185.6	193.2	204.6	211.6	218.1	231.7	245.8	258.8	271.3
160°	180.7	181.8	185.6	192.1	200.2	205.1	211.1	223.5	235.5	246.9	257.7
162.5°	182.3	182.9	185.6	190.5	196.4	199.7	204.0	213.8	224.6	234.4	244.2
165°	183.4	183.9	185.6	189.4	193.2	195.9	198.0	205.1	213.2	221.9	230.1
167.5°	184.5	184.5	185.6	188.3	190.5	192.1	193.7	197.5	202.9	209.4	215.4
170°	185.0	185.0	185.6	187.2	188.8	189.4	190.5	192.6	195.3	198.6	202.4
172.5°	185.0	185.0	185.0	186.1	186.7	186.7	186.7	187.7	189.4	191.5	193.2
175°	185.0	184.5	184.5	185.0	184.5	184.5	184.5	184.5	185.0	186.1	186.7
177.5°	185.0	184.5	183.9	183.9	183.4	183.4	182.9	182.9	182.9	182.9	182.9
180°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8



TEST NUMBER: P395671

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9	119.9
2.5°	120.5	120.5	119.9	119.4	119.4	119.4	118.8	118.3	117.7	117.7
5°	120.5	120.5	119.9	119.9	119.9	119.9	119.4	119.4	118.8	118.8
7.5°	121.0	120.5	120.5	120.5	120.5	120.5	120.5	120.5	119.9	119.9
10°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
12.5°	121.5	121.5	121.5	121.5	122.1	122.1	122.1	122.1	122.1	122.1
15°	121.5	122.1	122.6	122.6	122.6	123.2	123.2	123.2	123.2	123.2
17.5°	122.1	122.6	123.2	123.2	123.7	123.7	124.3	124.3	124.3	124.3
20°	122.1	122.6	123.2	123.7	124.3	124.3	124.8	125.3	125.3	124.8
22.5°	121.5	122.6	123.2	123.7	124.3	124.8	125.3	125.9	125.9	125.9
25°	121.0	122.1	123.2	124.3	124.3	124.8	125.9	125.9	125.9	125.9
27.5°	120.5	121.5	122.6	123.7	124.3	124.8	125.3	125.9	125.9	125.9
30°	119.4	121.0	122.1	123.2	123.7	124.3	124.8	125.3	125.3	125.3
32.5°	117.7	119.4	120.5	122.1	122.6	123.2	123.7	124.3	124.3	124.3
35°	116.1	117.7	118.8	120.5	121.0	121.5	122.6	122.6	123.2	123.2
37.5°	113.4	115.6	116.7	118.3	118.8	119.4	120.5	121.0	121.0	121.0
40°	110.7	112.9	113.9	115.6	116.1	116.7	117.7	118.3	118.8	118.8
42.5°	107.4	109.6	110.7	112.3	112.9	113.4	114.5	115.0	115.6	115.6
45°	104.2	105.8	106.9	108.5	109.6	109.6	110.7	111.2	111.8	111.8
47.5°	99.8	101.5	102.6	104.2	105.3	105.8	106.3	106.9	107.4	107.4
50°	95.0	96.6	98.2	99.3	100.4	100.4	101.5	102.0	102.6	102.6
52.5°	90.1	91.2	92.8	94.4	95.0	95.5	96.0	96.6	97.1	97.1
55°	84.6	85.7	87.4	88.4	89.0	89.5	90.1	90.6	91.2	91.2
57.5°	78.7	79.8	81.4	82.5	83.0	83.6	84.1	84.6	85.2	85.2
60°	72.2	73.3	74.9	76.0	76.5	76.5	77.6	78.1	78.1	78.1
62.5°	65.7	66.7	67.8	68.9	69.5	70.0	70.5	71.1	71.1	71.1
65°	59.1	60.2	61.3	61.9	62.4	62.4	62.9	63.5	64.0	64.0
67.5°	52.1	53.2	54.3	54.8	55.3	55.3	55.9	56.4	56.4	56.4
70°	45.0	45.6	46.7	47.2	47.7	47.7	48.8	48.8	48.8	48.8
72.5°	38.0	38.5	39.6	40.2	40.7	40.7	41.2	41.8	41.8	41.8
75°	31.5	32.0	32.6	33.6	33.6	33.6	34.2	34.7	34.7	34.7
77.5°	25.0	25.5	26.0	26.6	27.1	27.1	27.7	28.2	28.2	28.2
80°	19.0	19.5	20.1	20.6	20.6	21.2	21.2	21.7	21.7	21.7
82.5°	13.6	14.1	14.7	15.2	15.7	15.7	16.3	16.8	16.8	16.3
85°	9.2	10.3	10.9	11.4	11.4	11.4	11.9	12.5	12.5	11.9
87.5°	6.5	6.5	7.1	7.6	7.6	8.1	8.1	8.7	8.7	8.7
90°	3.8	3.8	4.3	4.3	4.9	4.9	4.9	5.4	5.4	5.4
92.5°	9.2	9.2	9.8	9.8	9.8	9.8	10.3	10.3	10.3	10.3
95°	98.8	44.5	37.4	22.8	21.7	19.0	18.4	19.0	19.0	18.4
97.5°	331.5	354.9	369.5	376.6	367.9	358.7	348.3	346.7	332.6	301.1
100°	357.6	376.0	393.9	406.4	411.3	415.6	425.4	431.4	434.1	436.8
102.5°	370.6	390.1	405.9	421.6	428.1	434.1	442.8	449.8	452.5	454.7
105°	382.0	402.1	419.4	433.5	439.5	444.9	453.6	460.1	465.0	465.5
107.5°	384.7	405.9	425.4	442.8	449.8	455.8	466.1	471.0	475.3	475.3
110°	389.6	409.7	427.6	443.3	450.4	457.4	468.3	475.9	480.2	481.3





TEST NUMBER: P395671

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	393.4	414.0	430.8	446.6	452.5	459.0	469.3	476.4	480.2	481.8
115°	396.6	416.7	433.5	448.2	454.7	461.2	471.5	477.5	481.8	483.5
117.5°	398.8	418.3	435.2	448.7	455.8	461.2	471.0	477.5	481.8	482.4
120°	399.3	418.9	435.2	448.7	454.7	460.7	470.4	476.9	481.3	481.3
122.5°	399.3	418.3	434.6	447.6	453.1	458.5	467.7	475.3	479.1	479.1
125°	397.2	416.2	431.9	444.9	450.4	455.2	465.0	472.1	475.9	476.4
127.5°	393.9	412.4	428.1	441.1	446.6	450.9	461.2	467.7	471.5	472.1
130°	389.6	408.0	423.2	435.7	441.1	446.0	454.7	461.7	466.1	467.2
132.5°	384.7	402.1	417.3	429.2	434.6	439.0	447.6	454.7	458.5	460.1
135°	378.7	395.0	409.7	421.6	427.0	431.4	439.5	446.6	450.4	452.0
137.5°	371.1	386.9	401.0	412.9	417.8	422.1	430.3	436.8	440.0	442.2
140°	362.5	377.1	391.8	402.6	407.5	411.8	418.9	425.9	429.2	430.8
142.5°	353.2	367.9	380.9	391.8	396.1	400.4	407.5	414.0	417.3	417.8
145°	343.5	357.6	369.5	379.8	383.6	388.0	394.5	401.0	404.2	404.8
147.5°	332.6	345.6	357.0	366.8	371.1	374.4	380.4	386.3	389.6	390.1
150°	320.1	332.1	342.4	352.1	355.9	359.2	365.7	371.1	374.4	374.9
152.5°	308.2	319.6	328.3	337.0	340.7	344.0	349.4	354.9	358.1	358.7
155°	295.7	306.0	314.7	321.8	325.0	328.3	332.6	337.5	340.2	340.7
157.5°	282.7	292.5	300.1	306.6	309.8	312.5	316.3	320.7	322.3	323.4
160°	268.6	276.7	283.2	289.7	292.5	295.2	299.0	302.2	304.4	304.9
162.5°	253.4	260.4	265.9	271.8	273.5	275.6	279.4	282.7	284.3	284.9
165°	237.7	244.2	249.1	253.9	255.0	256.6	259.4	262.6	263.7	264.8
167.5°	221.9	227.3	230.6	234.9	236.6	237.7	240.4	242.5	243.6	244.2
170°	206.7	210.5	213.2	216.5	217.0	218.7	220.3	222.5	223.0	223.0
172.5°	194.8	196.4	198.0	199.1	199.7	200.2	201.3	201.8	201.8	201.8
175°	187.2	188.3	188.3	188.8	188.8	188.8	188.8	188.8	188.8	188.8
177.5°	182.9	182.9	182.9	182.3	182.3	182.3	182.3	181.8	181.8	181.8
180°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8

(END OF REPORT)