

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: P395669

Luminaire Tested: **I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395669  
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 (4000K)  
Description: CORELITE I3, OPEN TOP  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2164.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

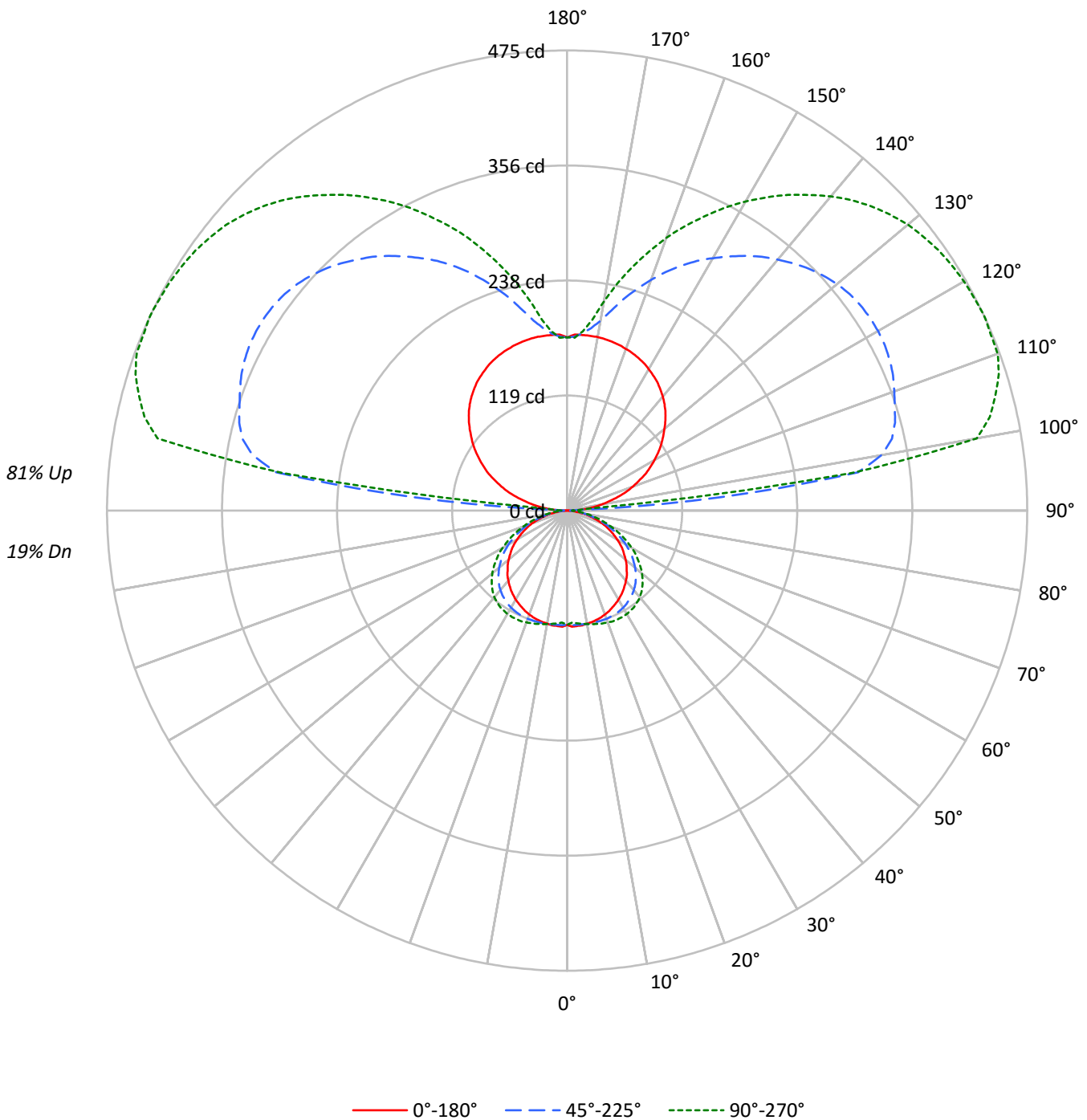
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	648	648	648
5°	657	638	626
10°	656	634	627
15°	657	632	633
20°	657	634	640
25°	657	636	649
30°	657	637	656
35°	657	634	659
40°	654	629	655
45°	648	616	641
50°	642	595	617
55°	631	567	582
60°	611	526	535
65°	585	468	477
70°	553	406	403
75°	478	319	323
80°	380	228	233
85°	225	133	153



TEST NUMBER: P395669

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.3	0.5
10°-20°	33.6	1.6
20°-30°	54.1	2.5
30°-40°	69.6	3.2
40°-50°	76.5	3.5
50°-60°	71.9	3.3
60°-70°	55.8	2.6
70°-80°	32.0	1.5
80°-90°	10.3	0.5
90°-100°	138.3	6.4
100°-110°	328.7	15.2
110°-120°	330.2	15.3
120°-130°	302.8	14.0
130°-140°	253.2	11.7
140°-150°	190.1	8.8
150°-160°	123.7	5.7
160°-170°	63.7	2.9
170°-180°	18.0	0.8
0°-30°	99.0	4.6
0°-40°	168.6	7.8
0°-60°	317.0	14.6
0°-90°	415.1	19.2
90°-120°	797.3	36.8
90°-150°	1543.4	71.3
90°-180°	1749.0	80.8
0°-180°	2164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	118	118	118	118	118	
5°	120	118	118	118	117	11
15°	117	116	119	120	121	33
25°	110	112	118	122	124	51
35°	101	104	112	119	121	63
45°	87	91	100	108	110	67
55°	70	74	82	88	90	62
65°	49	52	56	61	63	49
75°	26	27	30	33	34	28
85°	5	6	8	11	12	6
90°	0	2	3	5	5	2
95°	19	155	159	21	18	19
105°	54	208	350	432	458	57
115°	89	234	367	447	475	88
125°	118	244	370	443	468	106
135°	144	243	353	420	444	111
145°	162	232	321	377	398	101
155°	174	213	279	319	335	80
165°	180	192	226	251	260	51
175°	182	181	184	186	186	17
180°	179	179	179	179	179	



TEST NUMBER: P395669

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9
2.5°	120.0	119.5	118.9	118.9	118.4	118.4	118.4	117.9	117.9	117.9	118.4
5°	119.5	119.5	118.9	118.4	118.4	118.4	117.9	117.9	117.9	117.9	118.4
7.5°	119.5	118.9	118.4	118.4	117.9	117.9	117.9	117.9	117.9	117.9	118.4
10°	118.4	118.4	117.9	117.9	117.3	117.9	117.9	117.9	117.9	117.9	118.9
12.5°	117.9	117.9	117.3	116.8	116.8	116.8	117.3	117.3	117.3	117.9	118.9
15°	116.8	116.8	116.3	116.3	116.3	116.3	116.8	116.8	117.3	117.9	118.9
17.5°	115.7	115.7	115.2	115.2	115.2	115.7	115.7	116.3	116.8	117.9	118.9
20°	114.1	114.1	114.1	114.1	114.1	114.7	114.7	115.2	116.3	117.3	118.9
22.5°	112.5	112.5	112.5	112.5	112.5	113.1	113.6	114.7	115.2	116.8	118.4
25°	110.4	110.4	110.4	110.4	110.9	111.5	112.0	113.1	114.1	115.7	117.9
27.5°	108.3	108.8	108.8	108.8	109.3	109.9	110.4	111.5	113.1	115.2	116.8
30°	106.1	106.1	106.1	106.7	107.2	107.7	108.8	109.9	111.5	113.6	115.7
32.5°	103.5	103.5	104.0	104.0	105.1	105.6	106.7	108.3	109.9	112.0	114.1
35°	100.8	100.8	100.8	101.9	102.4	103.5	104.0	105.6	107.7	109.9	112.0
37.5°	97.6	98.1	98.1	98.7	99.7	100.8	101.3	103.5	105.6	107.7	109.9
40°	94.4	94.9	94.9	95.5	97.1	97.6	98.7	100.8	102.4	105.1	107.2
42.5°	91.2	91.2	91.7	92.3	93.9	94.4	95.5	97.6	99.7	101.9	104.0
45°	86.9	87.5	88.0	88.5	90.1	91.2	92.3	93.9	96.0	98.1	100.3
47.5°	83.2	83.2	83.7	84.8	86.4	87.5	88.0	90.1	91.7	93.9	96.0
50°	78.9	79.5	79.5	80.5	82.1	83.2	83.7	85.9	87.5	89.6	91.7
52.5°	74.1	74.7	75.2	76.3	77.9	78.9	79.5	81.1	82.7	84.8	86.4
55°	69.9	70.4	70.4	71.5	73.1	73.6	74.7	75.7	77.9	79.5	81.6
57.5°	65.1	65.6	65.6	66.7	67.7	68.8	69.3	70.9	72.5	74.1	75.7
60°	59.7	60.3	60.8	61.3	62.4	63.5	64.0	65.1	66.7	68.3	69.9
62.5°	54.4	54.9	55.5	56.0	57.1	57.6	58.1	59.7	60.8	62.4	63.5
65°	49.1	49.6	50.1	50.7	51.2	51.7	52.3	53.3	54.4	56.0	56.5
67.5°	43.7	44.3	44.3	44.8	45.3	45.9	46.4	47.5	48.0	49.6	50.1
70°	38.4	38.4	38.4	38.9	38.9	39.5	40.0	41.1	41.6	42.7	43.7
72.5°	32.0	32.5	32.5	32.5	33.1	33.6	34.1	34.7	35.2	35.7	36.8
75°	26.1	26.7	26.1	26.7	27.2	27.2	27.7	28.3	28.8	29.3	29.9
77.5°	20.8	20.3	20.8	20.8	21.3	21.3	21.3	21.9	22.9	22.9	24.0
80°	14.9	14.9	14.9	14.9	15.5	15.5	16.0	16.0	17.1	17.6	18.1
82.5°	9.6	9.6	10.1	10.1	10.1	10.7	10.7	11.2	11.7	12.3	12.8
85°	5.3	5.3	5.3	5.9	5.9	6.4	6.4	6.9	7.5	8.0	8.5
87.5°	1.6	2.1	2.7	2.7	3.2	3.2	3.7	3.7	4.8	5.3	5.9
90°	0.5	0.5	1.1	1.1	1.1	1.6	1.6	2.1	2.1	2.7	3.2
92.5°	9.1	21.3	44.3	66.1	57.1	53.3	32.0	9.6	8.5	9.1	9.1
95°	18.7	35.2	64.5	104.5	135.5	154.7	167.5	192.0	217.1	212.8	158.9
97.5°	27.2	45.3	77.9	114.7	157.3	179.2	195.7	225.1	257.1	283.7	302.9
100°	35.7	54.4	89.1	127.5	166.9	186.7	205.9	245.9	277.3	304.0	329.6
102.5°	44.8	63.5	99.2	139.2	178.1	197.3	216.0	251.2	286.4	318.4	343.4
105°	53.9	73.1	108.3	149.3	188.3	207.5	225.6	259.2	291.7	321.6	350.4
107.5°	63.5	81.6	116.3	157.3	196.3	215.5	233.6	267.2	298.6	328.5	354.6
110°	72.0	89.6	124.3	164.8	203.7	222.9	241.1	274.6	305.6	333.8	359.4



TEST NUMBER: P395669

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	80.0	97.1	131.7	171.2	209.6	228.8	246.4	280.0	310.9	338.6	364.2
115°	89.1	104.0	139.2	177.1	214.9	233.6	251.2	284.2	315.2	342.4	367.4
117.5°	96.5	110.9	145.6	181.9	219.2	237.3	254.4	287.4	317.8	345.0	369.6
120°	104.0	117.3	151.5	186.1	222.4	240.0	257.1	289.6	320.0	346.6	370.6
122.5°	111.5	123.7	156.3	190.4	225.1	242.7	259.2	291.2	321.0	347.2	370.6
125°	118.4	129.1	160.5	193.6	226.7	243.7	259.7	291.2	320.5	346.1	369.6
127.5°	124.8	134.9	163.7	196.8	227.7	244.3	259.7	290.1	319.4	344.5	367.4
130°	131.2	140.3	166.9	198.4	228.8	243.7	258.7	288.0	316.8	341.8	363.7
132.5°	137.6	146.1	169.6	200.0	229.3	243.7	257.6	285.8	313.6	338.1	358.9
135°	143.5	150.4	172.3	201.1	228.8	242.7	255.5	282.1	308.8	332.8	353.0
137.5°	148.8	154.7	174.4	201.6	228.3	241.1	253.9	277.8	302.9	326.4	346.1
140°	153.6	158.9	175.5	201.6	226.1	238.9	250.7	273.6	296.5	318.9	338.1
142.5°	157.9	162.7	177.1	200.5	224.0	236.3	247.5	269.3	290.1	311.4	330.1
145°	162.1	165.9	178.1	200.0	221.3	232.5	243.2	264.0	284.2	303.4	321.0
147.5°	165.3	169.1	179.2	197.9	218.1	228.3	238.4	258.1	276.8	294.9	310.9
150°	168.5	171.7	179.7	195.7	214.4	223.5	232.5	251.2	269.3	285.8	300.8
152.5°	171.7	173.9	181.3	193.6	210.1	218.7	227.7	244.3	260.8	276.2	290.6
155°	173.9	175.5	181.9	191.5	205.9	213.3	220.8	236.3	251.2	265.6	278.9
157.5°	176.0	177.6	182.4	189.9	201.1	208.0	214.4	227.7	241.6	254.4	266.6
160°	177.6	178.7	182.4	188.8	196.8	201.6	207.5	219.7	231.5	242.7	253.3
162.5°	179.2	179.7	182.4	187.2	193.1	196.3	200.5	210.1	220.8	230.4	240.0
165°	180.3	180.8	182.4	186.1	189.9	192.5	194.7	201.6	209.6	218.1	226.1
167.5°	181.3	181.3	182.4	185.1	187.2	188.8	190.4	194.1	199.5	205.9	211.7
170°	181.9	181.9	182.4	184.0	185.6	186.1	187.2	189.3	192.0	195.2	198.9
172.5°	181.9	181.9	181.9	182.9	183.5	183.5	183.5	184.5	186.1	188.3	189.9
175°	181.9	181.3	181.3	181.9	181.3	181.3	181.3	181.3	181.9	182.9	183.5
177.5°	181.9	181.3	180.8	180.8	180.3	180.3	179.7	179.7	179.7	179.7	179.7
180°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7



TEST NUMBER: P395669

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9	117.9
2.5°	118.4	118.4	117.9	117.3	117.3	117.3	116.8	116.3	115.7	115.7
5°	118.4	118.4	117.9	117.9	117.9	117.9	117.3	117.3	116.8	116.8
7.5°	118.9	118.4	118.4	118.4	118.4	118.4	118.4	118.4	117.9	117.9
10°	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9	118.9
12.5°	119.5	119.5	119.5	119.5	120.0	120.0	120.0	120.0	120.0	120.0
15°	119.5	120.0	120.5	120.5	120.5	121.1	121.1	121.1	121.1	121.1
17.5°	120.0	120.5	121.1	121.1	121.6	121.6	122.1	122.1	122.1	122.1
20°	120.0	120.5	121.1	121.6	122.1	122.1	122.7	123.2	123.2	122.7
22.5°	119.5	120.5	121.1	121.6	122.1	122.7	123.2	123.7	123.7	123.7
25°	118.9	120.0	121.1	122.1	122.1	122.7	123.7	123.7	123.7	123.7
27.5°	118.4	119.5	120.5	121.6	122.1	122.7	123.2	123.7	123.7	123.7
30°	117.3	118.9	120.0	121.1	121.6	122.1	122.7	123.2	123.2	123.2
32.5°	115.7	117.3	118.4	120.0	120.5	121.1	121.6	122.1	122.1	122.1
35°	114.1	115.7	116.8	118.4	118.9	119.5	120.5	120.5	121.1	121.1
37.5°	111.5	113.6	114.7	116.3	116.8	117.3	118.4	118.9	118.9	118.9
40°	108.8	110.9	112.0	113.6	114.1	114.7	115.7	116.3	116.8	116.8
42.5°	105.6	107.7	108.8	110.4	110.9	111.5	112.5	113.1	113.6	113.6
45°	102.4	104.0	105.1	106.7	107.7	107.7	108.8	109.3	109.9	109.9
47.5°	98.1	99.7	100.8	102.4	103.5	104.0	104.5	105.1	105.6	105.6
50°	93.3	94.9	96.5	97.6	98.7	98.7	99.7	100.3	100.8	100.8
52.5°	88.5	89.6	91.2	92.8	93.3	93.9	94.4	94.9	95.5	95.5
55°	83.2	84.3	85.9	86.9	87.5	88.0	88.5	89.1	89.6	89.6
57.5°	77.3	78.4	80.0	81.1	81.6	82.1	82.7	83.2	83.7	83.7
60°	70.9	72.0	73.6	74.7	75.2	75.2	76.3	76.8	76.8	76.8
62.5°	64.5	65.6	66.7	67.7	68.3	68.8	69.3	69.9	69.9	69.9
65°	58.1	59.2	60.3	60.8	61.3	61.3	61.9	62.4	62.9	62.9
67.5°	51.2	52.3	53.3	53.9	54.4	54.4	54.9	55.5	55.5	55.5
70°	44.3	44.8	45.9	46.4	46.9	46.9	48.0	48.0	48.0	48.0
72.5°	37.3	37.9	38.9	39.5	40.0	40.0	40.5	41.1	41.1	41.1
75°	30.9	31.5	32.0	33.1	33.1	33.1	33.6	34.1	34.1	34.1
77.5°	24.5	25.1	25.6	26.1	26.7	26.7	27.2	27.7	27.7	27.7
80°	18.7	19.2	19.7	20.3	20.3	20.8	20.8	21.3	21.3	21.3
82.5°	13.3	13.9	14.4	14.9	15.5	15.5	16.0	16.5	16.5	16.0
85°	9.1	10.1	10.7	11.2	11.2	11.2	11.7	12.3	12.3	11.7
87.5°	6.4	6.4	6.9	7.5	7.5	8.0	8.0	8.5	8.5	8.5
90°	3.7	3.7	4.3	4.3	4.8	4.8	4.8	5.3	5.3	5.3
92.5°	9.1	9.1	9.6	9.6	9.6	9.6	10.1	10.1	10.1	10.1
95°	97.1	43.7	36.8	22.4	21.3	18.7	18.1	18.7	18.7	18.1
97.5°	325.8	348.8	363.2	370.1	361.6	352.5	342.4	340.8	326.9	296.0
100°	351.4	369.6	387.2	399.4	404.2	408.5	418.1	424.0	426.6	429.3
102.5°	364.2	383.4	398.9	414.4	420.8	426.6	435.2	442.1	444.8	446.9
105°	375.4	395.2	412.2	426.1	432.0	437.3	445.8	452.2	457.0	457.6
107.5°	378.1	398.9	418.1	435.2	442.1	448.0	458.1	462.9	467.2	467.2
110°	382.9	402.6	420.2	435.7	442.6	449.6	460.2	467.7	472.0	473.0





TEST NUMBER: P395669

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	386.6	406.9	423.4	438.9	444.8	451.2	461.3	468.2	472.0	473.6
115°	389.8	409.6	426.1	440.5	446.9	453.3	463.4	469.3	473.6	475.2
117.5°	392.0	411.2	427.7	441.0	448.0	453.3	462.9	469.3	473.6	474.1
120°	392.5	411.7	427.7	441.0	446.9	452.8	462.4	468.8	473.0	473.0
122.5°	392.5	411.2	427.2	440.0	445.3	450.6	459.7	467.2	470.9	470.9
125°	390.4	409.0	424.5	437.3	442.6	447.4	457.0	464.0	467.7	468.2
127.5°	387.2	405.3	420.8	433.6	438.9	443.2	453.3	459.7	463.4	464.0
130°	382.9	401.0	416.0	428.2	433.6	438.4	446.9	453.8	458.1	459.2
132.5°	378.1	395.2	410.1	421.8	427.2	431.4	440.0	446.9	450.6	452.2
135°	372.2	388.2	402.6	414.4	419.7	424.0	432.0	438.9	442.6	444.2
137.5°	364.8	380.2	394.1	405.8	410.6	414.9	422.9	429.3	432.5	434.6
140°	356.2	370.6	385.0	395.7	400.5	404.8	411.7	418.6	421.8	423.4
142.5°	347.2	361.6	374.4	385.0	389.3	393.6	400.5	406.9	410.1	410.6
145°	337.6	351.4	363.2	373.3	377.0	381.3	387.7	394.1	397.3	397.8
147.5°	326.9	339.7	350.9	360.5	364.8	368.0	373.8	379.7	382.9	383.4
150°	314.6	326.4	336.5	346.1	349.8	353.0	359.4	364.8	368.0	368.5
152.5°	302.9	314.1	322.6	331.2	334.9	338.1	343.4	348.8	352.0	352.5
155°	290.6	300.8	309.3	316.2	319.4	322.6	326.9	331.7	334.4	334.9
157.5°	277.8	287.4	294.9	301.3	304.5	307.2	310.9	315.2	316.8	317.8
160°	264.0	272.0	278.4	284.8	287.4	290.1	293.8	297.0	299.2	299.7
162.5°	249.1	256.0	261.3	267.2	268.8	270.9	274.6	277.8	279.4	280.0
165°	233.6	240.0	244.8	249.6	250.7	252.3	254.9	258.1	259.2	260.3
167.5°	218.1	223.5	226.7	230.9	232.5	233.6	236.3	238.4	239.5	240.0
170°	203.2	206.9	209.6	212.8	213.3	214.9	216.5	218.7	219.2	219.2
172.5°	191.5	193.1	194.7	195.7	196.3	196.8	197.9	198.4	198.4	198.4
175°	184.0	185.1	185.1	185.6	185.6	185.6	185.6	185.6	185.6	185.6
177.5°	179.7	179.7	179.7	179.2	179.2	179.2	179.2	178.7	178.7	178.7
180°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7

(END OF REPORT)