

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: P395667

Luminaire Tested: **I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395667  
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 (3000K)  
Description: CORELITE I3, OPEN TOP  
2000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1833.9 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

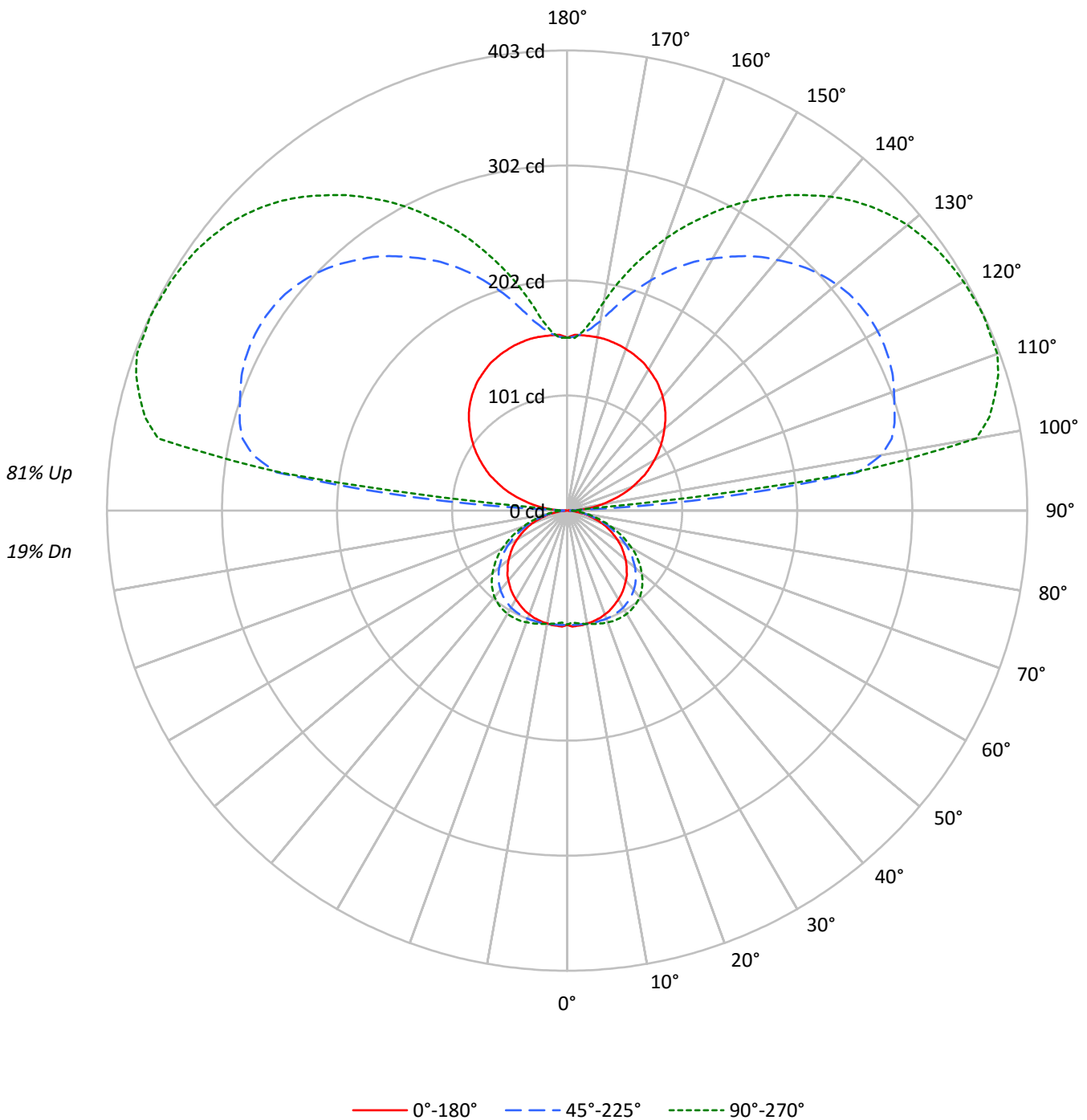
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	549	549	549
5°	556	541	531
10°	556	537	531
15°	557	535	536
20°	557	538	543
25°	557	539	551
30°	557	540	556
35°	556	537	558
40°	554	533	555
45°	550	522	543
50°	544	505	523
55°	535	481	493
60°	518	446	454
65°	496	397	404
70°	468	345	341
75°	405	270	274
80°	324	194	198
85°	191	112	130



TEST NUMBER: P395667

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.6	0.5
10°-20°	28.5	1.6
20°-30°	45.9	2.5
30°-40°	59.0	3.2
40°-50°	64.8	3.5
50°-60°	60.9	3.3
60°-70°	47.3	2.6
70°-80°	27.1	1.5
80°-90°	8.7	0.5
90°-100°	117.2	6.4
100°-110°	278.6	15.2
110°-120°	279.9	15.3
120°-130°	256.6	14.0
130°-140°	214.6	11.7
140°-150°	161.1	8.8
150°-160°	104.9	5.7
160°-170°	54.0	2.9
170°-180°	15.3	0.8
0°-30°	83.9	4.6
0°-40°	142.9	7.8
0°-60°	268.6	14.6
0°-90°	351.8	19.2
90°-120°	675.7	36.8
90°-150°	1308.0	71.3
90°-180°	1482.0	80.8
0°-180°	1833.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	100	100	100	100	100	
5°	101	100	100	100	99	10
15°	99	98	101	102	103	28
25°	94	94	100	104	105	43
35°	85	88	95	101	103	53
45°	74	77	85	91	93	57
55°	59	62	69	74	76	53
65°	42	44	48	52	53	41
75°	22	23	25	28	29	24
85°	4	5	7	10	10	5
90°	0	1	3	4	4	1
95°	16	131	135	18	15	16
105°	46	176	297	366	388	48
115°	76	198	311	379	403	74
125°	100	206	313	375	397	90
135°	122	206	299	356	376	94
145°	137	197	272	320	337	86
155°	147	181	236	271	284	68
165°	153	163	192	212	221	43
175°	154	154	156	157	157	15
180°	151	151	151	151	151	



TEST NUMBER: P395667

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2.5°	101.7	101.2	100.8	100.8	100.3	100.3	100.3	99.9	99.9	99.9	100.3
5°	101.2	101.2	100.8	100.3	100.3	100.3	99.9	99.9	99.9	99.9	100.3
7.5°	101.2	100.8	100.3	100.3	99.9	99.9	99.9	99.9	99.9	99.9	100.3
10°	100.3	100.3	99.9	99.9	99.4	99.9	99.9	99.9	99.9	99.9	100.8
12.5°	99.9	99.9	99.4	99.0	99.0	99.0	99.4	99.4	99.4	99.9	100.8
15°	99.0	99.0	98.5	98.5	98.5	98.5	99.0	99.0	99.4	99.9	100.8
17.5°	98.1	98.1	97.6	97.6	97.6	98.1	98.1	98.5	99.0	99.9	100.8
20°	96.7	96.7	96.7	96.7	96.7	97.2	97.2	97.6	98.5	99.4	100.8
22.5°	95.4	95.4	95.4	95.4	95.4	95.8	96.3	97.2	97.6	99.0	100.3
25°	93.6	93.6	93.6	93.6	94.0	94.5	94.9	95.8	96.7	98.1	99.9
27.5°	91.7	92.2	92.2	92.2	92.7	93.1	93.6	94.5	95.8	97.6	99.0
30°	89.9	89.9	89.9	90.4	90.8	91.3	92.2	93.1	94.5	96.3	98.1
32.5°	87.7	87.7	88.1	88.1	89.0	89.5	90.4	91.7	93.1	94.9	96.7
35°	85.4	85.4	85.4	86.3	86.8	87.7	88.1	89.5	91.3	93.1	94.9
37.5°	82.7	83.2	83.2	83.6	84.5	85.4	85.9	87.7	89.5	91.3	93.1
40°	80.0	80.5	80.5	80.9	82.3	82.7	83.6	85.4	86.8	89.0	90.8
42.5°	77.3	77.3	77.7	78.2	79.5	80.0	80.9	82.7	84.5	86.3	88.1
45°	73.7	74.1	74.6	75.0	76.4	77.3	78.2	79.5	81.4	83.2	85.0
47.5°	70.5	70.5	71.0	71.9	73.2	74.1	74.6	76.4	77.7	79.5	81.4
50°	66.9	67.3	67.3	68.2	69.6	70.5	71.0	72.8	74.1	75.9	77.7
52.5°	62.8	63.3	63.7	64.6	66.0	66.9	67.3	68.7	70.1	71.9	73.2
55°	59.2	59.7	59.7	60.6	61.9	62.4	63.3	64.2	66.0	67.3	69.2
57.5°	55.1	55.6	55.6	56.5	57.4	58.3	58.8	60.1	61.5	62.8	64.2
60°	50.6	51.1	51.5	52.0	52.9	53.8	54.2	55.1	56.5	57.9	59.2
62.5°	46.1	46.6	47.0	47.5	48.4	48.8	49.3	50.6	51.5	52.9	53.8
65°	41.6	42.0	42.5	42.9	43.4	43.8	44.3	45.2	46.1	47.5	47.9
67.5°	37.1	37.5	37.5	38.0	38.4	38.9	39.3	40.2	40.7	42.0	42.5
70°	32.5	32.5	32.5	33.0	33.0	33.4	33.9	34.8	35.3	36.2	37.1
72.5°	27.1	27.6	27.6	27.6	28.0	28.5	28.9	29.4	29.8	30.3	31.2
75°	22.1	22.6	22.1	22.6	23.1	23.1	23.5	24.0	24.4	24.9	25.3
77.5°	17.6	17.2	17.6	17.6	18.1	18.1	18.1	18.5	19.4	19.4	20.3
80°	12.7	12.7	12.7	12.7	13.1	13.1	13.6	13.6	14.5	14.9	15.4
82.5°	8.1	8.1	8.6	8.6	8.6	9.0	9.0	9.5	9.9	10.4	10.8
85°	4.5	4.5	4.5	5.0	5.0	5.4	5.4	5.9	6.3	6.8	7.2
87.5°	1.4	1.8	2.3	2.3	2.7	2.7	3.2	3.2	4.1	4.5	5.0
90°	0.5	0.5	0.9	0.9	0.9	1.4	1.4	1.8	1.8	2.3	2.7
92.5°	7.7	18.1	37.5	56.0	48.4	45.2	27.1	8.1	7.2	7.7	7.7
95°	15.8	29.8	54.7	88.6	114.8	131.1	141.9	162.7	184.0	180.3	134.7
97.5°	23.1	38.4	66.0	97.2	133.3	151.9	165.9	190.7	217.8	240.4	256.7
100°	30.3	46.1	75.5	108.0	141.5	158.2	174.5	208.4	235.0	257.6	279.3
102.5°	38.0	53.8	84.1	118.0	151.0	167.2	183.0	212.9	242.7	269.8	291.1
105°	45.6	61.9	91.7	126.6	159.5	175.8	191.2	219.7	247.2	272.5	296.9
107.5°	53.8	69.2	98.5	133.3	166.3	182.6	198.0	226.4	253.1	278.4	300.6
110°	61.0	75.9	105.3	139.7	172.7	188.9	204.3	232.8	259.0	282.9	304.6



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CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	67.8	82.3	111.6	145.1	177.6	193.9	208.8	237.3	263.5	287.0	308.7
115°	75.5	88.1	118.0	150.1	182.1	198.0	212.9	240.9	267.1	290.2	311.4
117.5°	81.8	94.0	123.4	154.1	185.8	201.1	215.6	243.6	269.4	292.4	313.2
120°	88.1	99.4	128.4	157.7	188.5	203.4	217.8	245.4	271.2	293.8	314.1
122.5°	94.5	104.9	132.4	161.4	190.7	205.6	219.7	246.8	272.1	294.2	314.1
125°	100.3	109.4	136.0	164.1	192.1	206.5	220.1	246.8	271.6	293.3	313.2
127.5°	105.8	114.3	138.8	166.8	193.0	207.0	220.1	245.9	270.7	292.0	311.4
130°	111.2	118.9	141.5	168.1	193.9	206.5	219.2	244.1	268.5	289.7	308.2
132.5°	116.6	123.8	143.7	169.5	194.3	206.5	218.3	242.3	265.8	286.5	304.2
135°	121.6	127.5	146.0	170.4	193.9	205.6	216.5	239.1	261.7	282.0	299.2
137.5°	126.1	131.1	147.8	170.8	193.4	204.3	215.1	235.5	256.7	276.6	293.3
140°	130.2	134.7	148.7	170.8	191.6	202.5	212.4	231.9	251.3	270.3	286.5
142.5°	133.8	137.9	150.1	169.9	189.8	200.2	209.7	228.2	245.9	263.9	279.8
145°	137.4	140.6	151.0	169.5	187.6	197.1	206.1	223.7	240.9	257.2	272.1
147.5°	140.1	143.3	151.9	167.7	184.9	193.4	202.0	218.8	234.6	249.9	263.5
150°	142.8	145.5	152.3	165.9	181.7	189.4	197.1	212.9	228.2	242.3	254.9
152.5°	145.5	147.3	153.7	164.1	178.1	185.3	193.0	207.0	221.0	234.1	246.3
155°	147.3	148.7	154.1	162.3	174.5	180.8	187.1	200.2	212.9	225.1	236.4
157.5°	149.1	150.5	154.6	160.9	170.4	176.3	181.7	193.0	204.7	215.6	226.0
160°	150.5	151.4	154.6	160.0	166.8	170.8	175.8	186.2	196.2	205.6	214.7
162.5°	151.9	152.3	154.6	158.6	163.6	166.3	169.9	178.1	187.1	195.3	203.4
165°	152.8	153.2	154.6	157.7	160.9	163.2	165.0	170.8	177.6	184.9	191.6
167.5°	153.7	153.7	154.6	156.8	158.6	160.0	161.4	164.5	169.0	174.5	179.4
170°	154.1	154.1	154.6	155.9	157.3	157.7	158.6	160.4	162.7	165.4	168.6
172.5°	154.1	154.1	154.1	155.0	155.5	155.5	155.5	156.4	157.7	159.5	160.9
175°	154.1	153.7	153.7	154.1	153.7	153.7	153.7	153.7	154.1	155.0	155.5
177.5°	154.1	153.7	153.2	153.2	152.8	152.8	152.3	152.3	152.3	152.3	152.3
180°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4



TEST NUMBER: P395667

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
2.5°	100.3	100.3	99.9	99.4	99.4	99.4	99.0	98.5	98.1	98.1
5°	100.3	100.3	99.9	99.9	99.9	99.9	99.4	99.4	99.0	99.0
7.5°	100.8	100.3	100.3	100.3	100.3	100.3	100.3	100.3	99.9	99.9
10°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
12.5°	101.2	101.2	101.2	101.2	101.7	101.7	101.7	101.7	101.7	101.7
15°	101.2	101.7	102.1	102.1	102.1	102.6	102.6	102.6	102.6	102.6
17.5°	101.7	102.1	102.6	102.6	103.0	103.0	103.5	103.5	103.5	103.5
20°	101.7	102.1	102.6	103.0	103.5	103.5	104.0	104.4	104.4	104.0
22.5°	101.2	102.1	102.6	103.0	103.5	104.0	104.4	104.9	104.9	104.9
25°	100.8	101.7	102.6	103.5	103.5	104.0	104.9	104.9	104.9	104.9
27.5°	100.3	101.2	102.1	103.0	103.5	104.0	104.4	104.9	104.9	104.9
30°	99.4	100.8	101.7	102.6	103.0	103.5	104.0	104.4	104.4	104.4
32.5°	98.1	99.4	100.3	101.7	102.1	102.6	103.0	103.5	103.5	103.5
35°	96.7	98.1	99.0	100.3	100.8	101.2	102.1	102.1	102.6	102.6
37.5°	94.5	96.3	97.2	98.5	99.0	99.4	100.3	100.8	100.8	100.8
40°	92.2	94.0	94.9	96.3	96.7	97.2	98.1	98.5	99.0	99.0
42.5°	89.5	91.3	92.2	93.6	94.0	94.5	95.4	95.8	96.3	96.3
45°	86.8	88.1	89.0	90.4	91.3	91.3	92.2	92.7	93.1	93.1
47.5°	83.2	84.5	85.4	86.8	87.7	88.1	88.6	89.0	89.5	89.5
50°	79.1	80.5	81.8	82.7	83.6	83.6	84.5	85.0	85.4	85.4
52.5°	75.0	75.9	77.3	78.6	79.1	79.5	80.0	80.5	80.9	80.9
55°	70.5	71.4	72.8	73.7	74.1	74.6	75.0	75.5	75.9	75.9
57.5°	65.5	66.4	67.8	68.7	69.2	69.6	70.1	70.5	71.0	71.0
60°	60.1	61.0	62.4	63.3	63.7	63.7	64.6	65.1	65.1	65.1
62.5°	54.7	55.6	56.5	57.4	57.9	58.3	58.8	59.2	59.2	59.2
65°	49.3	50.2	51.1	51.5	52.0	52.0	52.4	52.9	53.3	53.3
67.5°	43.4	44.3	45.2	45.6	46.1	46.1	46.6	47.0	47.0	47.0
70°	37.5	38.0	38.9	39.3	39.8	39.8	40.7	40.7	40.7	40.7
72.5°	31.6	32.1	33.0	33.4	33.9	33.9	34.3	34.8	34.8	34.8
75°	26.2	26.7	27.1	28.0	28.0	28.0	28.5	28.9	28.9	28.9
77.5°	20.8	21.2	21.7	22.1	22.6	22.6	23.1	23.5	23.5	23.5
80°	15.8	16.3	16.7	17.2	17.2	17.6	17.6	18.1	18.1	18.1
82.5°	11.3	11.8	12.2	12.7	13.1	13.1	13.6	14.0	14.0	13.6
85°	7.7	8.6	9.0	9.5	9.5	9.5	9.9	10.4	10.4	9.9
87.5°	5.4	5.4	5.9	6.3	6.3	6.8	6.8	7.2	7.2	7.2
90°	3.2	3.2	3.6	3.6	4.1	4.1	4.1	4.5	4.5	4.5
92.5°	7.7	7.7	8.1	8.1	8.1	8.1	8.6	8.6	8.6	8.6
95°	82.3	37.1	31.2	19.0	18.1	15.8	15.4	15.8	15.8	15.4
97.5°	276.2	295.6	307.8	313.7	306.4	298.8	290.2	288.8	277.1	250.8
100°	297.8	313.2	328.1	338.5	342.6	346.2	354.3	359.3	361.6	363.8
102.5°	308.7	325.0	338.1	351.2	356.6	361.6	368.8	374.7	376.9	378.7
105°	318.2	334.9	349.4	361.1	366.1	370.6	377.8	383.3	387.3	387.8
107.5°	320.4	338.1	354.3	368.8	374.7	379.7	388.2	392.3	395.9	395.9
110°	324.5	341.2	356.2	369.3	375.1	381.0	390.0	396.4	400.0	400.9





TEST NUMBER: P395667

CATALOG NUMBER: I3-UL-20L93050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	327.7	344.9	358.9	372.0	376.9	382.4	391.0	396.8	400.0	401.3
115°	330.4	347.1	361.1	373.3	378.7	384.2	392.8	397.7	401.3	402.7
117.5°	332.2	348.5	362.5	373.8	379.7	384.2	392.3	397.7	401.3	401.8
120°	332.6	348.9	362.5	373.8	378.7	383.7	391.9	397.3	400.9	400.9
122.5°	332.6	348.5	362.0	372.9	377.4	381.9	389.6	395.9	399.1	399.1
125°	330.8	346.7	359.8	370.6	375.1	379.2	387.3	393.2	396.4	396.8
127.5°	328.1	343.5	356.6	367.5	372.0	375.6	384.2	389.6	392.8	393.2
130°	324.5	339.9	352.5	362.9	367.5	371.5	378.7	384.6	388.2	389.1
132.5°	320.4	334.9	347.6	357.5	362.0	365.6	372.9	378.7	381.9	383.3
135°	315.5	329.0	341.2	351.2	355.7	359.3	366.1	372.0	375.1	376.5
137.5°	309.1	322.3	334.0	343.9	348.0	351.6	358.4	363.8	366.5	368.4
140°	301.9	314.1	326.3	335.4	339.4	343.0	348.9	354.8	357.5	358.9
142.5°	294.2	306.4	317.3	326.3	329.9	333.6	339.4	344.9	347.6	348.0
145°	286.1	297.8	307.8	316.4	319.5	323.2	328.6	334.0	336.7	337.2
147.5°	277.1	287.9	297.4	305.5	309.1	311.9	316.8	321.8	324.5	325.0
150°	266.7	276.6	285.2	293.3	296.5	299.2	304.6	309.1	311.9	312.3
152.5°	256.7	266.2	273.4	280.7	283.8	286.5	291.1	295.6	298.3	298.8
155°	246.3	254.9	262.1	268.0	270.7	273.4	277.1	281.1	283.4	283.8
157.5°	235.5	243.6	249.9	255.4	258.1	260.3	263.5	267.1	268.5	269.4
160°	223.7	230.5	235.9	241.4	243.6	245.9	249.0	251.7	253.6	254.0
162.5°	211.1	216.9	221.5	226.4	227.8	229.6	232.8	235.5	236.8	237.3
165°	198.0	203.4	207.5	211.5	212.4	213.8	216.0	218.8	219.7	220.6
167.5°	184.9	189.4	192.1	195.7	197.1	198.0	200.2	202.0	202.9	203.4
170°	172.2	175.4	177.6	180.3	180.8	182.1	183.5	185.3	185.8	185.8
172.5°	162.3	163.6	165.0	165.9	166.3	166.8	167.7	168.1	168.1	168.1
175°	155.9	156.8	156.8	157.3	157.3	157.3	157.3	157.3	157.3	157.3
177.5°	152.3	152.3	152.3	151.9	151.9	151.9	151.9	151.4	151.4	151.4
180°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4

(END OF REPORT)