

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: P395681

Luminaire Tested: **I3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395681  
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-30L83050-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, OPEN TOP  
3000 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: 3030.5 lumens  
Efficiency: N/A  
Efficacy: 146.4 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

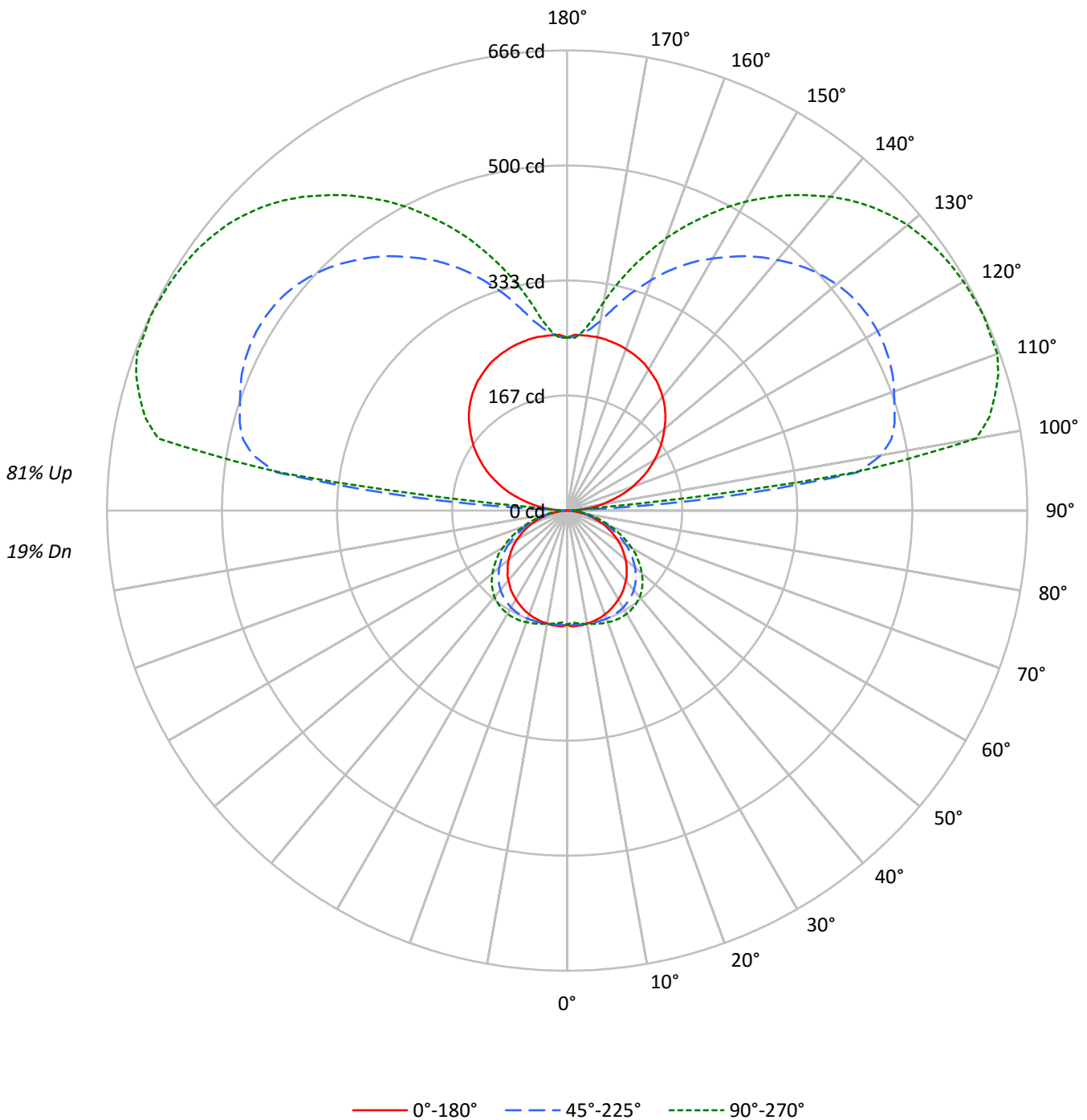
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	907	907	907
5°	920	894	877
10°	918	888	878
15°	920	885	885
20°	920	889	896
25°	919	891	910
30°	921	892	918
35°	920	887	922
40°	916	881	917
45°	907	862	897
50°	899	834	864
55°	884	794	815
60°	856	736	749
65°	819	656	668
70°	774	568	564
75°	671	446	452
80°	533	321	327
85°	318	186	215



TEST NUMBER: P395681

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.8	0.5
10°-20°	47.1	1.6
20°-30°	75.8	2.5
30°-40°	97.5	3.2
40°-50°	107.1	3.5
50°-60°	100.7	3.3
60°-70°	78.2	2.6
70°-80°	44.9	1.5
80°-90°	14.4	0.5
90°-100°	193.7	6.4
100°-110°	460.4	15.2
110°-120°	462.5	15.3
120°-130°	424.1	14.0
130°-140°	354.6	11.7
140°-150°	266.2	8.8
150°-160°	173.3	5.7
160°-170°	89.2	2.9
170°-180°	25.2	0.8
0°-30°	138.7	4.6
0°-40°	236.2	7.8
0°-60°	443.9	14.6
0°-90°	581.3	19.2
90°-120°	1116.5	36.8
90°-150°	2161.4	71.3
90°-180°	2449.0	80.8
0°-180°	3030.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	165	165	165	165	165	
5°	167	166	166	165	164	16
15°	164	163	167	169	170	46
25°	155	156	165	171	173	71
35°	141	145	157	167	170	88
45°	122	128	140	151	154	94
55°	98	103	114	122	126	87
65°	69	72	79	86	88	68
75°	37	38	42	46	48	39
85°	8	9	12	16	16	9
90°	1	2	4	7	8	2
95°	26	217	223	30	25	26
105°	75	290	491	605	641	80
115°	125	327	515	626	666	123
125°	166	341	518	620	656	148
135°	201	340	494	588	622	155
145°	227	326	450	528	557	142
155°	244	299	391	447	469	112
165°	252	270	317	351	364	71
175°	255	254	257	260	260	24
180°	250	250	250	250	250	



TEST NUMBER: P395681

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1
2.5°	168.0	167.3	166.6	166.6	165.8	165.8	165.8	165.1	165.1	165.1	165.8
5°	167.3	167.3	166.6	165.8	165.8	165.8	165.1	165.1	165.1	165.1	165.8
7.5°	167.3	166.6	165.8	165.8	165.1	165.1	165.1	165.1	165.1	165.1	165.8
10°	165.8	165.8	165.1	165.1	164.3	165.1	165.1	165.1	165.1	165.1	166.6
12.5°	165.1	165.1	164.3	163.6	163.6	163.6	164.3	164.3	164.3	165.1	166.6
15°	163.6	163.6	162.8	162.8	162.8	162.8	163.6	163.6	164.3	165.1	166.6
17.5°	162.1	162.1	161.3	161.3	161.3	162.1	162.1	162.8	163.6	165.1	166.6
20°	159.8	159.8	159.8	159.8	159.8	160.6	160.6	161.3	162.8	164.3	166.6
22.5°	157.6	157.6	157.6	157.6	157.6	158.3	159.1	160.6	161.3	163.6	165.8
25°	154.6	154.6	154.6	154.6	155.3	156.1	156.8	158.3	159.8	162.1	165.1
27.5°	151.6	152.4	152.4	152.4	153.1	153.9	154.6	156.1	158.3	161.3	163.6
30°	148.6	148.6	148.6	149.4	150.1	150.9	152.4	153.9	156.1	159.1	162.1
32.5°	144.9	144.9	145.6	145.6	147.1	147.9	149.4	151.6	153.9	156.8	159.8
35°	141.2	141.2	141.2	142.7	143.4	144.9	145.6	147.9	150.9	153.9	156.8
37.5°	136.7	137.4	137.4	138.2	139.7	141.2	141.9	144.9	147.9	150.9	153.9
40°	132.2	132.9	132.9	133.7	135.9	136.7	138.2	141.2	143.4	147.1	150.1
42.5°	127.7	127.7	128.5	129.2	131.4	132.2	133.7	136.7	139.7	142.7	145.6
45°	121.7	122.5	123.2	124.0	126.2	127.7	129.2	131.4	134.4	137.4	140.4
47.5°	116.5	116.5	117.3	118.8	121.0	122.5	123.2	126.2	128.5	131.4	134.4
50°	110.5	111.3	111.3	112.8	115.0	116.5	117.3	120.2	122.5	125.5	128.5
52.5°	103.8	104.6	105.3	106.8	109.0	110.5	111.3	113.5	115.8	118.8	121.0
55°	97.8	98.6	98.6	100.1	102.3	103.1	104.6	106.1	109.0	111.3	114.3
57.5°	91.1	91.9	91.9	93.4	94.9	96.3	97.1	99.3	101.6	103.8	106.1
60°	83.6	84.4	85.1	85.9	87.4	88.9	89.6	91.1	93.4	95.6	97.8
62.5°	76.2	76.9	77.7	78.4	79.9	80.7	81.4	83.6	85.1	87.4	88.9
65°	68.7	69.5	70.2	71.0	71.7	72.4	73.2	74.7	76.2	78.4	79.2
67.5°	61.2	62.0	62.0	62.7	63.5	64.2	65.0	66.5	67.2	69.5	70.2
70°	53.8	53.8	53.8	54.5	54.5	55.3	56.0	57.5	58.3	59.7	61.2
72.5°	44.8	45.6	45.6	45.6	46.3	47.1	47.8	48.5	49.3	50.0	51.5
75°	36.6	37.3	36.6	37.3	38.1	38.1	38.8	39.6	40.3	41.1	41.8
77.5°	29.1	28.4	29.1	29.1	29.9	29.9	29.9	30.6	32.1	32.1	33.6
80°	20.9	20.9	20.9	20.9	21.7	21.7	22.4	22.4	23.9	24.6	25.4
82.5°	13.4	13.4	14.2	14.2	14.2	14.9	14.9	15.7	16.4	17.2	17.9
85°	7.5	7.5	7.5	8.2	8.2	9.0	9.0	9.7	10.5	11.2	11.9
87.5°	2.2	3.0	3.7	3.7	4.5	4.5	5.2	5.2	6.7	7.5	8.2
90°	0.7	0.7	1.5	1.5	1.5	2.2	2.2	3.0	3.0	3.7	4.5
92.5°	12.7	29.9	62.0	92.6	79.9	74.7	44.8	13.4	11.9	12.7	12.7
95°	26.1	49.3	90.4	146.4	189.7	216.6	234.5	268.9	304.0	298.0	222.6
97.5°	38.1	63.5	109.0	160.6	220.3	250.9	274.1	315.2	360.0	397.3	424.2
100°	50.0	76.2	124.7	178.5	233.8	261.4	288.3	344.3	388.4	425.7	461.6
102.5°	62.7	88.9	138.9	194.9	249.5	276.3	302.5	351.8	401.1	445.9	481.0
105°	75.4	102.3	151.6	209.1	263.6	290.5	315.9	363.0	408.5	450.4	490.7
107.5°	88.9	114.3	162.8	220.3	274.8	301.7	327.1	374.2	418.2	460.1	496.7
110°	100.8	125.5	174.0	230.8	285.3	312.2	337.6	384.6	428.0	467.5	503.4



TEST NUMBER: P395681

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	112.0	135.9	184.5	239.7	293.5	320.4	345.1	392.1	435.4	474.3	510.1
115°	124.7	145.6	194.9	248.0	301.0	327.1	351.8	398.1	441.4	479.5	514.6
117.5°	135.2	155.3	203.9	254.7	307.0	332.4	356.3	402.6	445.1	483.2	517.6
120°	145.6	164.3	212.1	260.7	311.4	336.1	360.0	405.5	448.1	485.5	519.1
122.5°	156.1	173.3	218.8	266.6	315.2	339.8	363.0	407.8	449.6	486.2	519.1
125°	165.8	180.7	224.8	271.1	317.4	341.3	363.7	407.8	448.9	484.7	517.6
127.5°	174.8	189.0	229.3	275.6	318.9	342.1	363.7	406.3	447.4	482.5	514.6
130°	183.7	196.4	233.8	277.8	320.4	341.3	362.2	403.3	443.6	478.7	509.4
132.5°	192.7	204.6	237.5	280.1	321.2	341.3	360.7	400.3	439.2	473.5	502.6
135°	200.9	210.6	241.2	281.6	320.4	339.8	357.7	395.1	432.4	466.0	494.4
137.5°	208.4	216.6	244.2	282.3	319.7	337.6	355.5	389.1	424.2	457.1	484.7
140°	215.1	222.6	245.7	282.3	316.7	334.6	351.0	383.1	415.3	446.6	473.5
142.5°	221.1	227.8	248.0	280.8	313.7	330.9	346.5	377.2	406.3	436.2	462.3
145°	227.0	232.3	249.5	280.1	309.9	325.6	340.6	369.7	398.1	425.0	449.6
147.5°	231.5	236.8	250.9	277.1	305.5	319.7	333.8	361.5	387.6	413.0	435.4
150°	236.0	240.5	251.7	274.1	300.2	312.9	325.6	351.8	377.2	400.3	421.2
152.5°	240.5	243.5	253.9	271.1	294.3	306.2	318.9	342.1	365.2	386.9	407.0
155°	243.5	245.7	254.7	268.1	288.3	298.7	309.2	330.9	351.8	371.9	390.6
157.5°	246.5	248.7	255.4	265.9	281.6	291.3	300.2	318.9	338.3	356.3	373.4
160°	248.7	250.2	255.4	264.4	275.6	282.3	290.5	307.7	324.1	339.8	354.8
162.5°	250.9	251.7	255.4	262.1	270.4	274.8	280.8	294.3	309.2	322.6	336.1
165°	252.4	253.2	255.4	260.7	265.9	269.6	272.6	282.3	293.5	305.5	316.7
167.5°	253.9	253.9	255.4	259.2	262.1	264.4	266.6	271.9	279.3	288.3	296.5
170°	254.7	254.7	255.4	257.7	259.9	260.7	262.1	265.1	268.9	273.4	278.6
172.5°	254.7	254.7	254.7	256.2	256.9	256.9	256.9	258.4	260.7	263.6	265.9
175°	254.7	253.9	253.9	254.7	253.9	253.9	253.9	253.9	254.7	256.2	256.9
177.5°	254.7	253.9	253.2	253.2	252.4	252.4	251.7	251.7	251.7	251.7	251.7
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



TEST NUMBER: P395681

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1	165.1
2.5°	165.8	165.8	165.1	164.3	164.3	164.3	163.6	162.8	162.1	162.1
5°	165.8	165.8	165.1	165.1	165.1	165.1	164.3	164.3	163.6	163.6
7.5°	166.6	165.8	165.8	165.8	165.8	165.8	165.8	165.8	165.1	165.1
10°	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6	166.6
12.5°	167.3	167.3	167.3	167.3	168.0	168.0	168.0	168.0	168.0	168.0
15°	167.3	168.0	168.8	168.8	168.8	169.5	169.5	169.5	169.5	169.5
17.5°	168.0	168.8	169.5	169.5	170.3	170.3	171.0	171.0	171.0	171.0
20°	168.0	168.8	169.5	170.3	171.0	171.0	171.8	172.5	172.5	171.8
22.5°	167.3	168.8	169.5	170.3	171.0	171.8	172.5	173.3	173.3	173.3
25°	166.6	168.0	169.5	171.0	171.0	171.8	173.3	173.3	173.3	173.3
27.5°	165.8	167.3	168.8	170.3	171.0	171.8	172.5	173.3	173.3	173.3
30°	164.3	166.6	168.0	169.5	170.3	171.0	171.8	172.5	172.5	172.5
32.5°	162.1	164.3	165.8	168.0	168.8	169.5	170.3	171.0	171.0	171.0
35°	159.8	162.1	163.6	165.8	166.6	167.3	168.8	168.8	169.5	169.5
37.5°	156.1	159.1	160.6	162.8	163.6	164.3	165.8	166.6	166.6	166.6
40°	152.4	155.3	156.8	159.1	159.8	160.6	162.1	162.8	163.6	163.6
42.5°	147.9	150.9	152.4	154.6	155.3	156.1	157.6	158.3	159.1	159.1
45°	143.4	145.6	147.1	149.4	150.9	150.9	152.4	153.1	153.9	153.9
47.5°	137.4	139.7	141.2	143.4	144.9	145.6	146.4	147.1	147.9	147.9
50°	130.7	132.9	135.2	136.7	138.2	138.2	139.7	140.4	141.2	141.2
52.5°	124.0	125.5	127.7	130.0	130.7	131.4	132.2	132.9	133.7	133.7
55°	116.5	118.0	120.2	121.7	122.5	123.2	124.0	124.7	125.5	125.5
57.5°	108.3	109.8	112.0	113.5	114.3	115.0	115.8	116.5	117.3	117.3
60°	99.3	100.8	103.1	104.6	105.3	105.3	106.8	107.5	107.5	107.5
62.5°	90.4	91.9	93.4	94.9	95.6	96.3	97.1	97.8	97.8	97.8
65°	81.4	82.9	84.4	85.1	85.9	85.9	86.6	87.4	88.1	88.1
67.5°	71.7	73.2	74.7	75.4	76.2	76.2	76.9	77.7	77.7	77.7
70°	62.0	62.7	64.2	65.0	65.7	65.7	67.2	67.2	67.2	67.2
72.5°	52.3	53.0	54.5	55.3	56.0	56.0	56.8	57.5	57.5	57.5
75°	43.3	44.1	44.8	46.3	46.3	46.3	47.1	47.8	47.8	47.8
77.5°	34.4	35.1	35.8	36.6	37.3	37.3	38.1	38.8	38.8	38.8
80°	26.1	26.9	27.6	28.4	28.4	29.1	29.1	29.9	29.9	29.9
82.5°	18.7	19.4	20.2	20.9	21.7	21.7	22.4	23.2	23.2	22.4
85°	12.7	14.2	14.9	15.7	15.7	15.7	16.4	17.2	17.2	16.4
87.5°	9.0	9.0	9.7	10.5	10.5	11.2	11.2	11.9	11.9	11.9
90°	5.2	5.2	6.0	6.0	6.7	6.7	6.7	7.5	7.5	7.5
92.5°	12.7	12.7	13.4	13.4	13.4	13.4	14.2	14.2	14.2	14.2
95°	135.9	61.2	51.5	31.4	29.9	26.1	25.4	26.1	26.1	25.4
97.5°	456.3	488.5	508.6	518.3	506.4	493.7	479.5	477.2	457.8	414.5
100°	492.2	517.6	542.2	559.4	566.1	572.1	585.5	593.8	597.5	601.2
102.5°	510.1	537.0	558.7	580.3	589.3	597.5	609.4	619.2	622.9	625.9
105°	525.8	553.4	577.3	596.7	605.0	612.4	624.4	633.3	640.1	640.8
107.5°	529.5	558.7	585.5	609.4	619.2	627.4	641.6	648.3	654.3	654.3
110°	536.2	563.9	588.5	610.2	619.9	629.6	644.5	655.0	661.0	662.5





TEST NUMBER: P395681

CATALOG NUMBER: I3-UL-30L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	541.5	569.9	593.0	614.7	622.9	631.8	646.0	655.7	661.0	663.2
115°	546.0	573.6	596.7	616.9	625.9	634.8	649.0	657.2	663.2	665.5
117.5°	548.9	575.8	599.0	617.7	627.4	634.8	648.3	657.2	663.2	664.0
120°	549.7	576.6	599.0	617.7	625.9	634.1	647.5	656.5	662.5	662.5
122.5°	549.7	575.8	598.2	616.2	623.6	631.1	643.8	654.3	659.5	659.5
125°	546.7	572.8	594.5	612.4	619.9	626.6	640.1	649.8	655.0	655.7
127.5°	542.2	567.6	589.3	607.2	614.7	620.6	634.8	643.8	649.0	649.8
130°	536.2	561.6	582.6	599.7	607.2	613.9	625.9	635.6	641.6	643.1
132.5°	529.5	553.4	574.3	590.8	598.2	604.2	616.2	625.9	631.1	633.3
135°	521.3	543.7	563.9	580.3	587.8	593.8	605.0	614.7	619.9	622.1
137.5°	510.9	532.5	551.9	568.4	575.1	581.1	592.3	601.2	605.7	608.7
140°	498.9	519.1	539.2	554.2	560.9	566.9	576.6	586.3	590.8	593.0
142.5°	486.2	506.4	524.3	539.2	545.2	551.2	560.9	569.9	574.3	575.1
145°	472.8	492.2	508.6	522.8	528.0	534.0	543.0	551.9	556.4	557.2
147.5°	457.8	475.8	491.4	504.9	510.9	515.3	523.6	531.8	536.2	537.0
150°	440.7	457.1	471.3	484.7	489.9	494.4	503.4	510.9	515.3	516.1
152.5°	424.2	439.9	451.9	463.8	469.0	473.5	481.0	488.5	492.9	493.7
155°	407.0	421.2	433.2	442.9	447.4	451.9	457.8	464.6	468.3	469.0
157.5°	389.1	402.6	413.0	422.0	426.5	430.2	435.4	441.4	443.6	445.1
160°	369.7	380.9	389.9	398.8	402.6	406.3	411.5	416.0	419.0	419.7
162.5°	348.8	358.5	366.0	374.2	376.4	379.4	384.6	389.1	391.4	392.1
165°	327.1	336.1	342.8	349.5	351.0	353.3	357.0	361.5	363.0	364.5
167.5°	305.5	312.9	317.4	323.4	325.6	327.1	330.9	333.8	335.3	336.1
170°	284.6	289.8	293.5	298.0	298.7	301.0	303.2	306.2	307.0	307.0
172.5°	268.1	270.4	272.6	274.1	274.8	275.6	277.1	277.8	277.8	277.8
175°	257.7	259.2	259.2	259.9	259.9	259.9	259.9	259.9	259.9	259.9
177.5°	251.7	251.7	251.7	250.9	250.9	250.9	250.9	250.2	250.2	250.2
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2

(END OF REPORT)