

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: P395735

Luminaire Tested: **I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395735  
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-50L83050-1D-UNV-W2A-W-4 (4500K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5354.2 lumens  
Efficiency: N/A  
Efficacy: 143.9 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

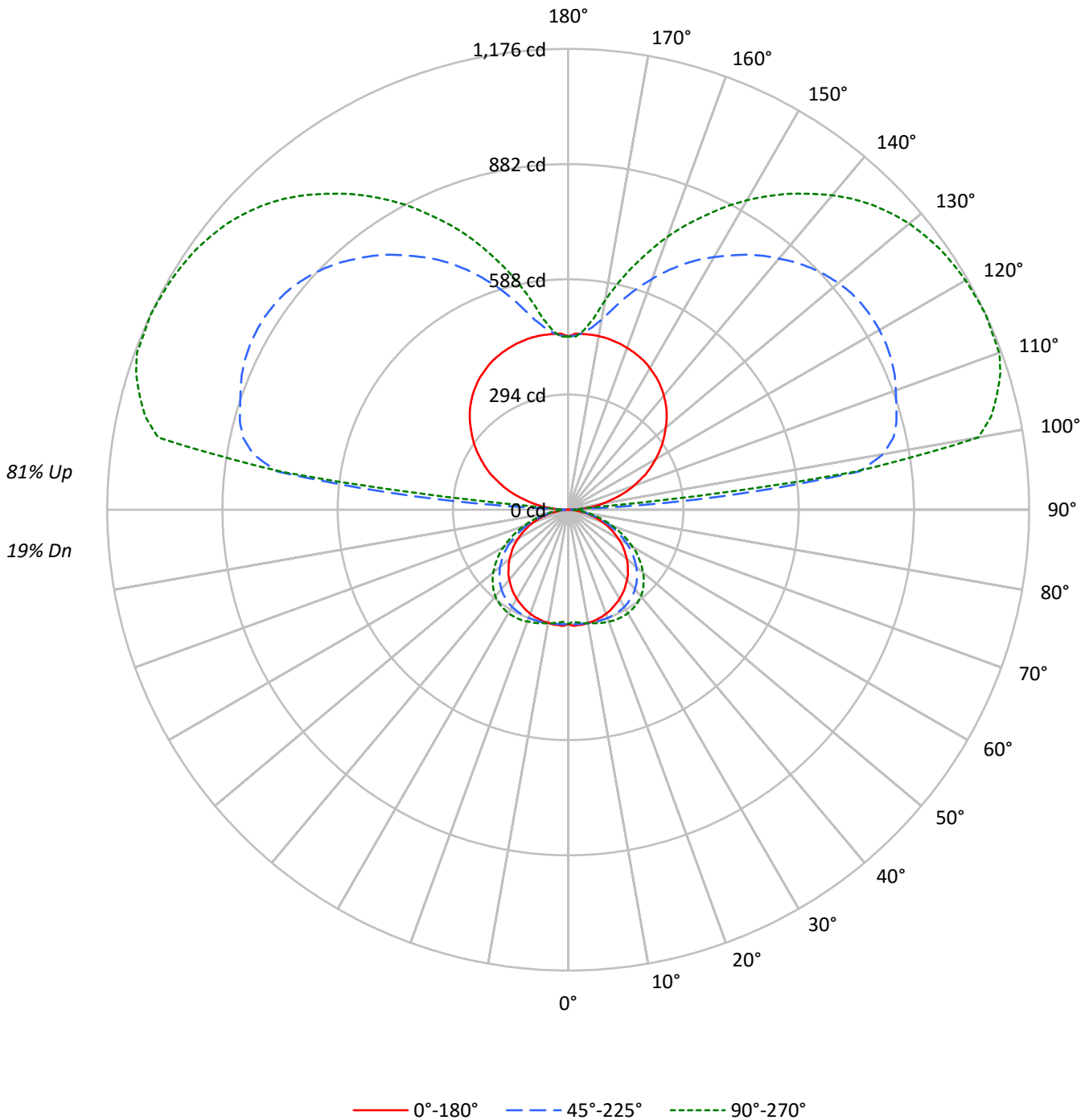
Input Watts (W): 37.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P395735

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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	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°	1603	1603	1603
5°	1625	1579	1549
10°	1623	1569	1551
15°	1626	1563	1565
20°	1627	1570	1583
25°	1624	1573	1607
30°	1627	1575	1622
35°	1625	1568	1629
40°	1618	1556	1620
45°	1604	1524	1585
50°	1589	1474	1526
55°	1562	1402	1439
60°	1513	1302	1324
65°	1447	1159	1181
70°	1367	1005	997
75°	1186	788	800
80°	941	567	578
85°	560	330	380



TEST NUMBER: P395735

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.9	0.5
10°-20°	83.2	1.6
20°-30°	133.9	2.5
30°-40°	172.3	3.2
40°-50°	189.2	3.5
50°-60°	177.8	3.3
60°-70°	138.2	2.6
70°-80°	79.3	1.5
80°-90°	25.4	0.5
90°-100°	342.3	6.4
100°-110°	813.4	15.2
110°-120°	817.0	15.3
120°-130°	749.3	14.0
130°-140°	626.5	11.7
140°-150°	470.3	8.8
150°-160°	306.1	5.7
160°-170°	157.6	2.9
170°-180°	44.6	0.8
0°-30°	245.0	4.6
0°-40°	417.2	7.8
0°-60°	784.2	14.6
0°-90°	1027.1	19.2
90°-120°	1972.7	36.8
90°-150°	3818.8	71.3
90°-180°	4327.0	80.8
0°-180°	5354.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	296	293	293	292	289	28
15°	289	288	294	298	300	82
25°	273	276	292	302	306	126
35°	249	256	277	294	300	156
45°	215	226	248	266	272	166
55°	173	182	202	216	222	154
65°	121	128	140	152	156	120
75°	65	67	74	82	84	69
85°	13	16	21	28	29	16
90°	1	4	8	12	13	4
95°	46	383	393	53	45	46
105°	133	513	867	1069	1132	141
115°	220	578	909	1106	1176	217
125°	293	603	914	1095	1158	262
135°	355	600	874	1038	1099	274
145°	401	575	794	933	984	251
155°	430	528	690	790	829	199
165°	446	476	560	620	644	126
175°	450	449	454	459	459	43
180°	442	442	442	442	442	



TEST NUMBER: P395735

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6
2.5°	296.9	295.6	294.3	294.3	292.9	292.9	292.9	291.6	291.6	291.6	292.9
5°	295.6	295.6	294.3	292.9	292.9	292.9	291.6	291.6	291.6	291.6	292.9
7.5°	295.6	294.3	292.9	292.9	291.6	291.6	291.6	291.6	291.6	291.6	292.9
10°	292.9	292.9	291.6	291.6	290.3	291.6	291.6	291.6	291.6	291.6	294.3
12.5°	291.6	291.6	290.3	289.0	289.0	289.0	290.3	290.3	290.3	291.6	294.3
15°	289.0	289.0	287.7	287.7	287.7	287.7	289.0	289.0	290.3	291.6	294.3
17.5°	286.3	286.3	285.0	285.0	285.0	286.3	286.3	287.7	289.0	291.6	294.3
20°	282.4	282.4	282.4	282.4	282.4	283.7	283.7	285.0	287.7	290.3	294.3
22.5°	278.4	278.4	278.4	278.4	278.4	279.7	281.1	283.7	285.0	289.0	292.9
25°	273.1	273.1	273.1	273.1	274.5	275.8	277.1	279.7	282.4	286.3	291.6
27.5°	267.9	269.2	269.2	269.2	270.5	271.8	273.1	275.8	279.7	285.0	289.0
30°	262.6	262.6	262.6	263.9	265.2	266.5	269.2	271.8	275.8	281.1	286.3
32.5°	256.0	256.0	257.3	257.3	259.9	261.3	263.9	267.9	271.8	277.1	282.4
35°	249.4	249.4	249.4	252.0	253.4	256.0	257.3	261.3	266.5	271.8	277.1
37.5°	241.5	242.8	242.8	244.1	246.8	249.4	250.7	256.0	261.3	266.5	271.8
40°	233.6	234.9	234.9	236.2	240.2	241.5	244.1	249.4	253.4	259.9	265.2
42.5°	225.6	225.6	227.0	228.3	232.2	233.6	236.2	241.5	246.8	252.0	257.3
45°	215.1	216.4	217.7	219.0	223.0	225.6	228.3	232.2	237.5	242.8	248.1
47.5°	205.8	205.8	207.2	209.8	213.8	216.4	217.7	223.0	227.0	232.2	237.5
50°	195.3	196.6	196.6	199.2	203.2	205.8	207.2	212.4	216.4	221.7	227.0
52.5°	183.4	184.7	186.1	188.7	192.7	195.3	196.6	200.6	204.5	209.8	213.8
55°	172.9	174.2	174.2	176.8	180.8	182.1	184.7	187.4	192.7	196.6	201.9
57.5°	161.0	162.3	162.3	164.9	167.6	170.2	171.5	175.5	179.5	183.4	187.4
60°	147.8	149.1	150.4	151.7	154.4	157.0	158.3	161.0	164.9	168.9	172.9
62.5°	134.6	135.9	137.2	138.6	141.2	142.5	143.8	147.8	150.4	154.4	157.0
65°	121.4	122.7	124.0	125.4	126.7	128.0	129.3	132.0	134.6	138.6	139.9
67.5°	108.2	109.5	109.5	110.8	112.2	113.5	114.8	117.4	118.8	122.7	124.0
70°	95.0	95.0	95.0	96.3	96.3	97.6	99.0	101.6	102.9	105.6	108.2
72.5°	79.2	80.5	80.5	80.5	81.8	83.1	84.5	85.8	87.1	88.4	91.0
75°	64.7	66.0	64.7	66.0	67.3	67.3	68.6	69.9	71.3	72.6	73.9
77.5°	51.5	50.1	51.5	51.5	52.8	52.8	52.8	54.1	56.7	56.7	59.4
80°	36.9	36.9	36.9	36.9	38.3	38.3	39.6	39.6	42.2	43.5	44.9
82.5°	23.8	23.8	25.1	25.1	25.1	26.4	26.4	27.7	29.0	30.3	31.7
85°	13.2	13.2	13.2	14.5	14.5	15.8	15.8	17.2	18.5	19.8	21.1
87.5°	4.0	5.3	6.6	6.6	7.9	7.9	9.2	9.2	11.9	13.2	14.5
90°	1.3	1.3	2.6	2.6	2.6	4.0	4.0	5.3	5.3	6.6	7.9
92.5°	22.4	52.8	109.5	163.6	141.2	132.0	79.2	23.8	21.1	22.4	22.4
95°	46.2	87.1	159.7	258.6	335.2	382.7	414.3	475.0	537.0	526.5	393.2
97.5°	67.3	112.2	192.7	283.7	389.3	443.4	484.3	556.8	636.0	702.0	749.5
100°	88.4	134.6	220.4	315.4	413.0	461.8	509.3	608.3	686.2	752.1	815.5
102.5°	110.8	157.0	245.4	344.4	440.7	488.2	534.4	621.5	708.6	787.8	849.8
105°	133.3	180.8	267.9	369.5	465.8	513.3	558.2	641.3	721.8	795.7	866.9
107.5°	157.0	201.9	287.7	389.3	485.6	533.1	578.0	661.1	738.9	812.8	877.5
110°	178.1	221.7	307.5	407.7	504.1	551.6	596.4	679.6	756.1	826.0	889.4



TEST NUMBER: P395735

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	197.9	240.2	325.9	423.6	518.6	566.1	609.6	692.8	769.3	837.9	901.2
115°	220.4	257.3	344.4	438.1	531.8	578.0	621.5	703.3	779.8	847.1	909.2
117.5°	238.8	274.5	360.2	450.0	542.3	587.2	629.4	711.2	786.4	853.7	914.4
120°	257.3	290.3	374.7	460.5	550.2	593.8	636.0	716.5	791.7	857.7	917.1
122.5°	275.8	306.1	386.6	471.1	556.8	600.4	641.3	720.5	794.4	859.0	917.1
125°	292.9	319.3	397.2	479.0	560.8	603.0	642.6	720.5	793.0	856.4	914.4
127.5°	308.8	333.8	405.1	486.9	563.4	604.3	642.6	717.8	790.4	852.4	909.2
130°	324.6	347.0	413.0	490.9	566.1	603.0	640.0	712.5	783.8	845.8	899.9
132.5°	340.4	361.6	419.6	494.8	567.4	603.0	637.3	707.3	775.9	836.6	888.0
135°	355.0	372.1	426.2	497.5	566.1	600.4	632.1	698.0	764.0	823.4	873.5
137.5°	368.1	382.7	431.5	498.8	564.8	596.4	628.1	687.5	749.5	807.6	856.4
140°	380.0	393.2	434.1	498.8	559.5	591.2	620.2	676.9	733.7	789.1	836.6
142.5°	390.6	402.5	438.1	496.1	554.2	584.6	612.3	666.4	717.8	770.6	816.8
145°	401.1	410.4	440.7	494.8	547.6	575.3	601.7	653.2	703.3	750.8	794.4
147.5°	409.1	418.3	443.4	489.5	539.7	564.8	589.8	638.7	684.8	729.7	769.3
150°	417.0	424.9	444.7	484.3	530.5	552.9	575.3	621.5	666.4	707.3	744.2
152.5°	424.9	430.2	448.6	479.0	519.9	541.0	563.4	604.3	645.3	683.5	719.1
155°	430.2	434.1	450.0	473.7	509.3	527.8	546.3	584.6	621.5	657.1	690.1
157.5°	435.4	439.4	451.3	469.8	497.5	514.6	530.5	563.4	597.7	629.4	659.8
160°	439.4	442.0	451.3	467.1	486.9	498.8	513.3	543.6	572.7	600.4	626.8
162.5°	443.4	444.7	451.3	463.2	477.7	485.6	496.1	519.9	546.3	570.0	593.8
165°	446.0	447.3	451.3	460.5	469.8	476.4	481.6	498.8	518.6	539.7	559.5
167.5°	448.6	448.6	451.3	457.9	463.2	467.1	471.1	480.3	493.5	509.3	523.9
170°	450.0	450.0	451.3	455.2	459.2	460.5	463.2	468.4	475.0	482.9	492.2
172.5°	450.0	450.0	450.0	452.6	453.9	453.9	453.9	456.6	460.5	465.8	469.8
175°	450.0	448.6	448.6	450.0	448.6	448.6	448.6	448.6	450.0	452.6	453.9
177.5°	450.0	448.6	447.3	447.3	446.0	446.0	444.7	444.7	444.7	444.7	444.7
180°	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0



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CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6	291.6
2.5°	292.9	292.9	291.6	290.3	290.3	290.3	289.0	287.7	286.3	286.3
5°	292.9	292.9	291.6	291.6	291.6	291.6	290.3	290.3	289.0	289.0
7.5°	294.3	292.9	292.9	292.9	292.9	292.9	292.9	292.9	291.6	291.6
10°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3
12.5°	295.6	295.6	295.6	295.6	296.9	296.9	296.9	296.9	296.9	296.9
15°	295.6	296.9	298.2	298.2	298.2	299.5	299.5	299.5	299.5	299.5
17.5°	296.9	298.2	299.5	299.5	300.9	300.9	302.2	302.2	302.2	302.2
20°	296.9	298.2	299.5	300.9	302.2	302.2	303.5	304.8	304.8	303.5
22.5°	295.6	298.2	299.5	300.9	302.2	303.5	304.8	306.1	306.1	306.1
25°	294.3	296.9	299.5	302.2	302.2	303.5	306.1	306.1	306.1	306.1
27.5°	292.9	295.6	298.2	300.9	302.2	303.5	304.8	306.1	306.1	306.1
30°	290.3	294.3	296.9	299.5	300.9	302.2	303.5	304.8	304.8	304.8
32.5°	286.3	290.3	292.9	296.9	298.2	299.5	300.9	302.2	302.2	302.2
35°	282.4	286.3	289.0	292.9	294.3	295.6	298.2	298.2	299.5	299.5
37.5°	275.8	281.1	283.7	287.7	289.0	290.3	292.9	294.3	294.3	294.3
40°	269.2	274.5	277.1	281.1	282.4	283.7	286.3	287.7	289.0	289.0
42.5°	261.3	266.5	269.2	273.1	274.5	275.8	278.4	279.7	281.1	281.1
45°	253.4	257.3	259.9	263.9	266.5	266.5	269.2	270.5	271.8	271.8
47.5°	242.8	246.8	249.4	253.4	256.0	257.3	258.6	259.9	261.3	261.3
50°	230.9	234.9	238.8	241.5	244.1	244.1	246.8	248.1	249.4	249.4
52.5°	219.0	221.7	225.6	229.6	230.9	232.2	233.6	234.9	236.2	236.2
55°	205.8	208.5	212.4	215.1	216.4	217.7	219.0	220.4	221.7	221.7
57.5°	191.3	194.0	197.9	200.6	201.9	203.2	204.5	205.8	207.2	207.2
60°	175.5	178.1	182.1	184.7	186.1	186.1	188.7	190.0	190.0	190.0
62.5°	159.7	162.3	164.9	167.6	168.9	170.2	171.5	172.9	172.9	172.9
65°	143.8	146.5	149.1	150.4	151.7	151.7	153.1	154.4	155.7	155.7
67.5°	126.7	129.3	132.0	133.3	134.6	134.6	135.9	137.2	137.2	137.2
70°	109.5	110.8	113.5	114.8	116.1	116.1	118.8	118.8	118.8	118.8
72.5°	92.4	93.7	96.3	97.6	99.0	99.0	100.3	101.6	101.6	101.6
75°	76.5	77.9	79.2	81.8	81.8	81.8	83.1	84.5	84.5	84.5
77.5°	60.7	62.0	63.3	64.7	66.0	66.0	67.3	68.6	68.6	68.6
80°	46.2	47.5	48.8	50.1	50.1	51.5	51.5	52.8	52.8	52.8
82.5°	33.0	34.3	35.6	36.9	38.3	38.3	39.6	40.9	40.9	39.6
85°	22.4	25.1	26.4	27.7	27.7	27.7	29.0	30.3	30.3	29.0
87.5°	15.8	15.8	17.2	18.5	18.5	19.8	19.8	21.1	21.1	21.1
90°	9.2	9.2	10.6	10.6	11.9	11.9	11.9	13.2	13.2	13.2
92.5°	22.4	22.4	23.8	23.8	23.8	23.8	25.1	25.1	25.1	25.1
95°	240.2	108.2	91.0	55.4	52.8	46.2	44.9	46.2	46.2	44.9
97.5°	806.2	863.0	898.6	915.8	894.6	872.2	847.1	843.2	808.9	732.3
100°	869.6	914.4	958.0	988.3	1000.2	1010.8	1034.5	1049.0	1055.6	1062.2
102.5°	901.2	948.7	987.0	1025.3	1041.1	1055.6	1076.7	1093.9	1100.5	1105.8
105°	929.0	977.8	1020.0	1054.3	1068.8	1082.0	1103.1	1119.0	1130.8	1132.2
107.5°	935.5	987.0	1034.5	1076.7	1093.9	1108.4	1133.5	1145.4	1155.9	1155.9
110°	947.4	996.2	1039.8	1078.1	1095.2	1112.4	1138.8	1157.2	1167.8	1170.4





TEST NUMBER: P395735

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	956.7	1006.8	1047.7	1086.0	1100.5	1116.3	1141.4	1158.5	1167.8	1171.7
115°	964.6	1013.4	1054.3	1089.9	1105.8	1121.6	1146.7	1161.2	1171.7	1175.7
117.5°	969.9	1017.4	1058.3	1091.3	1108.4	1121.6	1145.4	1161.2	1171.7	1173.1
120°	971.2	1018.7	1058.3	1091.3	1105.8	1120.3	1144.0	1159.9	1170.4	1170.4
122.5°	971.2	1017.4	1056.9	1088.6	1101.8	1115.0	1137.4	1155.9	1165.1	1165.1
125°	965.9	1012.1	1050.3	1082.0	1095.2	1107.1	1130.8	1148.0	1157.2	1158.5
127.5°	958.0	1002.8	1041.1	1072.8	1086.0	1096.5	1121.6	1137.4	1146.7	1148.0
130°	947.4	992.3	1029.2	1059.6	1072.8	1084.7	1105.8	1122.9	1133.5	1136.1
132.5°	935.5	977.8	1014.7	1043.8	1056.9	1067.5	1088.6	1105.8	1115.0	1119.0
135°	921.0	960.6	996.2	1025.3	1038.5	1049.0	1068.8	1086.0	1095.2	1099.2
137.5°	902.6	940.8	975.1	1004.2	1016.0	1026.6	1046.4	1062.2	1070.1	1075.4
140°	881.4	917.1	952.7	979.1	991.0	1001.5	1018.7	1035.8	1043.8	1047.7
142.5°	859.0	894.6	926.3	952.7	963.3	973.8	991.0	1006.8	1014.7	1016.0
145°	835.3	869.6	898.6	923.7	932.9	943.5	959.3	975.1	983.1	984.4
147.5°	808.9	840.5	868.3	892.0	902.6	910.5	925.0	939.5	947.4	948.7
150°	778.5	807.6	832.6	856.4	865.6	873.5	889.4	902.6	910.5	911.8
152.5°	749.5	777.2	798.3	819.4	828.7	836.6	849.8	863.0	870.9	872.2
155°	719.1	744.2	765.3	782.5	790.4	798.3	808.9	820.7	827.3	828.7
157.5°	687.5	711.2	729.7	745.5	753.5	760.1	769.3	779.8	783.8	786.4
160°	653.2	673.0	688.8	704.6	711.2	717.8	727.1	735.0	740.3	741.6
162.5°	616.2	633.4	646.6	661.1	665.0	670.3	679.6	687.5	691.4	692.8
165°	578.0	593.8	605.7	617.5	620.2	624.1	630.7	638.7	641.3	643.9
167.5°	539.7	552.9	560.8	571.4	575.3	578.0	584.6	589.8	592.5	593.8
170°	502.7	512.0	518.6	526.5	527.8	531.8	535.7	541.0	542.3	542.3
172.5°	473.7	477.7	481.6	484.3	485.6	486.9	489.5	490.9	490.9	490.9
175°	455.2	457.9	457.9	459.2	459.2	459.2	459.2	459.2	459.2	459.2
177.5°	444.7	444.7	444.7	443.4	443.4	443.4	443.4	442.0	442.0	442.0
180°	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0	442.0

(END OF REPORT)