

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: P395759

Luminaire Tested: **I3-UL-60L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395759  
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-60L83050-1D-UNV-W2A-W-4 (3500K)  
Description: CORELITE I3, OPEN TOP  
6000 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: 6072.6 lumens  
Efficiency: N/A  
Efficacy: 137.7 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

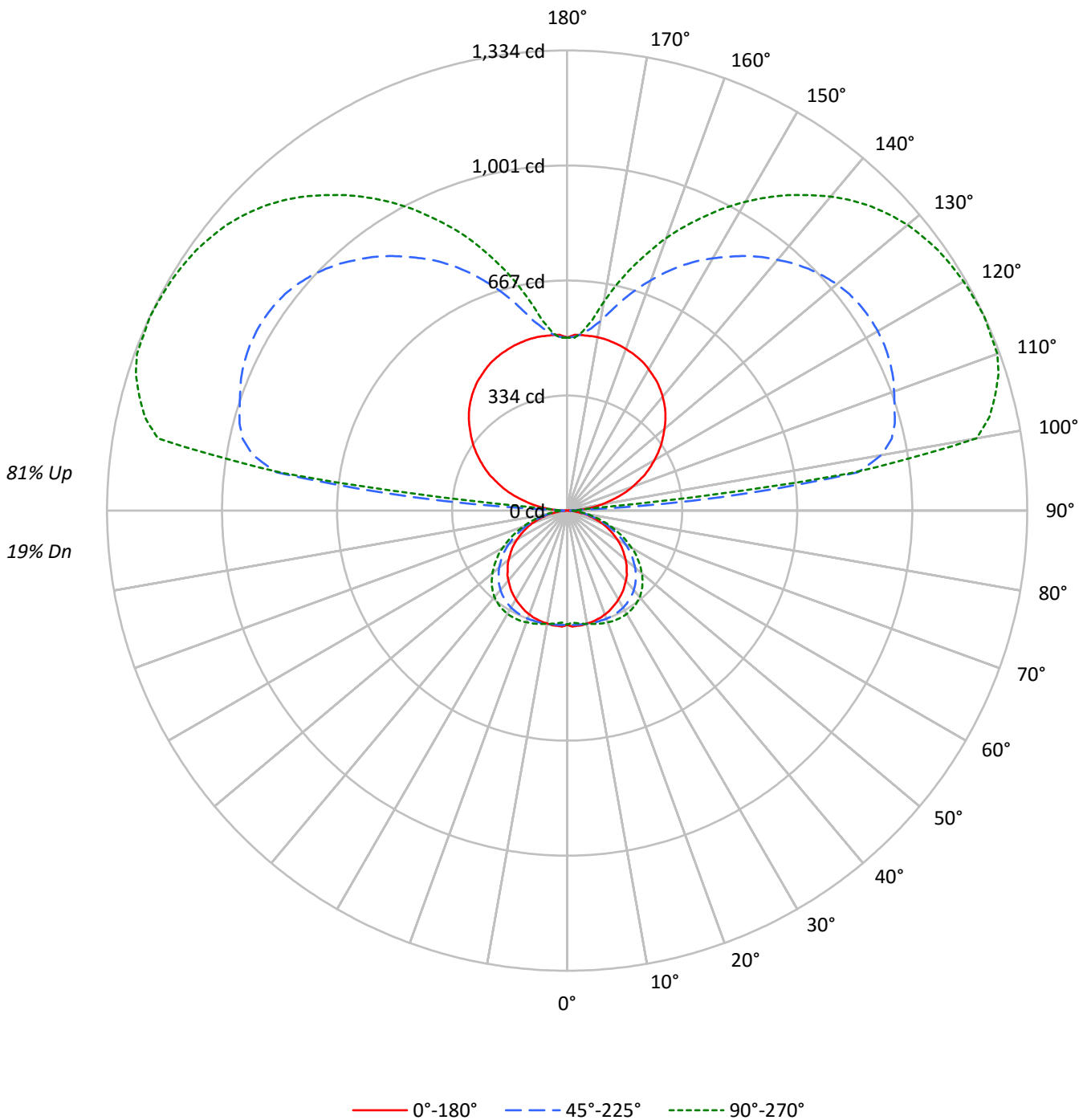
Input Watts (W): 44.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1818	1818	1818
5°	1843	1791	1757
10°	1840	1779	1759
15°	1844	1773	1775
20°	1845	1780	1795
25°	1842	1784	1822
30°	1845	1787	1840
35°	1843	1778	1848
40°	1835	1765	1838
45°	1818	1728	1797
50°	1803	1672	1731
55°	1772	1591	1632
60°	1716	1476	1502
65°	1641	1314	1339
70°	1551	1140	1130
75°	1343	893	907
80°	1068	643	656
85°	636	373	431



TEST NUMBER: P395759

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	0.5
10°-20°	94.3	1.6
20°-30°	151.8	2.5
30°-40°	195.4	3.2
40°-50°	214.6	3.5
50°-60°	201.7	3.3
60°-70°	156.7	2.6
70°-80°	89.9	1.5
80°-90°	28.8	0.5
90°-100°	388.2	6.4
100°-110°	922.5	15.2
110°-120°	926.7	15.3
120°-130°	849.8	14.0
130°-140°	710.6	11.7
140°-150°	533.4	8.8
150°-160°	347.2	5.7
160°-170°	178.8	2.9
170°-180°	50.6	0.8
0°-30°	277.8	4.6
0°-40°	473.2	7.8
0°-60°	889.5	14.6
0°-90°	1164.9	19.2
90°-120°	2237.4	36.8
90°-150°	4331.1	71.3
90°-180°	4908.0	80.8
0°-180°	6072.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	331	331	331	331	331	
5°	335	332	332	331	328	32
15°	328	326	334	338	340	93
25°	310	313	331	343	347	143
35°	283	290	314	334	340	177
45°	244	256	281	302	308	189
55°	196	206	229	245	251	175
65°	138	145	159	172	177	136
75°	73	76	84	93	96	78
85°	15	18	24	31	33	18
90°	2	4	9	14	15	5
95°	52	434	446	60	51	52
105°	151	582	983	1212	1284	160
115°	250	656	1031	1254	1334	246
125°	332	684	1037	1242	1314	297
135°	403	681	991	1178	1247	310
145°	455	652	901	1058	1116	284
155°	488	599	783	896	940	225
165°	506	540	635	703	730	143
175°	510	509	515	521	521	49
180°	501	501	501	501	501	



TEST NUMBER: P395759

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7
2.5°	336.7	335.2	333.7	333.7	332.2	332.2	332.2	330.7	330.7	330.7	332.2
5°	335.2	335.2	333.7	332.2	332.2	332.2	330.7	330.7	330.7	330.7	332.2
7.5°	335.2	333.7	332.2	332.2	330.7	330.7	330.7	330.7	330.7	330.7	332.2
10°	332.2	332.2	330.7	330.7	329.2	330.7	330.7	330.7	330.7	330.7	333.7
12.5°	330.7	330.7	329.2	327.8	327.8	327.8	329.2	329.2	329.2	330.7	333.7
15°	327.8	327.8	326.3	326.3	326.3	326.3	327.8	327.8	329.2	330.7	333.7
17.5°	324.8	324.8	323.3	323.3	323.3	324.8	324.8	326.3	327.8	330.7	333.7
20°	320.3	320.3	320.3	320.3	320.3	321.8	321.8	323.3	326.3	329.2	333.7
22.5°	315.8	315.8	315.8	315.8	315.8	317.3	318.8	321.8	323.3	327.8	332.2
25°	309.8	309.8	309.8	309.8	311.3	312.8	314.3	317.3	320.3	324.8	330.7
27.5°	303.8	305.3	305.3	305.3	306.8	308.3	309.8	312.8	317.3	323.3	327.8
30°	297.8	297.8	297.8	299.3	300.8	302.3	305.3	308.3	312.8	318.8	324.8
32.5°	290.3	290.3	291.8	291.8	294.8	296.3	299.3	303.8	308.3	314.3	320.3
35°	282.9	282.9	282.9	285.8	287.3	290.3	291.8	296.3	302.3	308.3	314.3
37.5°	273.9	275.4	275.4	276.9	279.9	282.9	284.4	290.3	296.3	302.3	308.3
40°	264.9	266.4	266.4	267.9	272.4	273.9	276.9	282.9	287.3	294.8	300.8
42.5°	255.9	255.9	257.4	258.9	263.4	264.9	267.9	273.9	279.9	285.8	291.8
45°	243.9	245.4	246.9	248.4	252.9	255.9	258.9	263.4	269.4	275.4	281.4
47.5°	233.5	233.5	235.0	238.0	242.4	245.4	246.9	252.9	257.4	263.4	269.4
50°	221.5	223.0	223.0	226.0	230.5	233.5	235.0	240.9	245.4	251.4	257.4
52.5°	208.0	209.5	211.0	214.0	218.5	221.5	223.0	227.5	232.0	238.0	242.4
55°	196.1	197.5	197.5	200.5	205.0	206.5	209.5	212.5	218.5	223.0	229.0
57.5°	182.6	184.1	184.1	187.1	190.1	193.1	194.6	199.0	203.5	208.0	212.5
60°	167.6	169.1	170.6	172.1	175.1	178.1	179.6	182.6	187.1	191.6	196.1
62.5°	152.7	154.1	155.6	157.1	160.1	161.6	163.1	167.6	170.6	175.1	178.1
65°	137.7	139.2	140.7	142.2	143.7	145.2	146.7	149.7	152.7	157.1	158.6
67.5°	122.7	124.2	124.2	125.7	127.2	128.7	130.2	133.2	134.7	139.2	140.7
70°	107.8	107.8	107.8	109.3	109.3	110.7	112.2	115.2	116.7	119.7	122.7
72.5°	89.8	91.3	91.3	91.3	92.8	94.3	95.8	97.3	98.8	100.3	103.3
75°	73.3	74.8	73.3	74.8	76.3	76.3	77.8	79.3	80.8	82.3	83.8
77.5°	58.4	56.9	58.4	58.4	59.9	59.9	59.9	61.4	64.4	64.4	67.3
80°	41.9	41.9	41.9	41.9	43.4	43.4	44.9	44.9	47.9	49.4	50.9
82.5°	26.9	26.9	28.4	28.4	28.4	29.9	29.9	31.4	32.9	34.4	35.9
85°	15.0	15.0	15.0	16.5	16.5	18.0	18.0	19.5	21.0	22.4	23.9
87.5°	4.5	6.0	7.5	7.5	9.0	9.0	10.5	10.5	13.5	15.0	16.5
90°	1.5	1.5	3.0	3.0	3.0	4.5	4.5	6.0	6.0	7.5	9.0
92.5°	25.4	59.9	124.2	185.6	160.1	149.7	89.8	26.9	23.9	25.4	25.4
95°	52.4	98.8	181.1	293.3	380.1	434.0	469.9	538.8	609.1	597.1	446.0
97.5°	76.3	127.2	218.5	321.8	441.5	502.9	549.2	631.6	721.4	796.2	850.1
100°	100.3	152.7	249.9	357.7	468.4	523.8	577.7	689.9	778.2	853.1	924.9
102.5°	125.7	178.1	278.4	390.6	499.9	553.7	606.1	704.9	803.7	893.5	963.8
105°	151.2	205.0	303.8	419.0	528.3	582.2	633.1	727.3	818.6	902.4	983.3
107.5°	178.1	229.0	326.3	441.5	550.7	604.6	655.5	749.8	838.1	921.9	995.2
110°	202.0	251.4	348.7	462.4	571.7	625.6	676.5	770.7	857.5	936.9	1008.7



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CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	224.5	272.4	369.7	480.4	588.2	642.0	691.4	785.7	872.5	950.3	1022.2
115°	249.9	291.8	390.6	496.9	603.1	655.5	704.9	797.7	884.5	960.8	1031.1
117.5°	270.9	311.3	408.6	510.3	615.1	666.0	713.9	806.7	892.0	968.3	1037.1
120°	291.8	329.2	425.0	522.3	624.1	673.5	721.4	812.6	897.9	972.8	1040.1
122.5°	312.8	347.2	438.5	534.3	631.6	680.9	727.3	817.1	900.9	974.3	1040.1
125°	332.2	362.2	450.5	543.3	636.0	683.9	728.8	817.1	899.4	971.3	1037.1
127.5°	350.2	378.6	459.5	552.2	639.0	685.4	728.8	814.1	896.5	966.8	1031.1
130°	368.2	393.6	468.4	556.7	642.0	683.9	725.8	808.2	889.0	959.3	1020.7
132.5°	386.1	410.1	475.9	561.2	643.5	683.9	722.8	802.2	880.0	948.8	1007.2
135°	402.6	422.0	483.4	564.2	642.0	680.9	716.9	791.7	866.5	933.9	990.7
137.5°	417.5	434.0	489.4	565.7	640.5	676.5	712.4	779.7	850.1	915.9	971.3
140°	431.0	446.0	492.4	565.7	634.6	670.5	703.4	767.7	832.1	895.0	948.8
142.5°	443.0	456.5	496.9	562.7	628.6	663.0	694.4	755.8	814.1	874.0	926.4
145°	455.0	465.4	499.9	561.2	621.1	652.5	682.4	740.8	797.7	851.6	900.9
147.5°	463.9	474.4	502.9	555.2	612.1	640.5	669.0	724.3	776.7	827.6	872.5
150°	472.9	481.9	504.3	549.2	601.6	627.1	652.5	704.9	755.8	802.2	844.1
152.5°	481.9	487.9	508.8	543.3	589.7	613.6	639.0	685.4	731.8	775.2	815.6
155°	487.9	492.4	510.3	537.3	577.7	598.6	619.6	663.0	704.9	745.3	782.7
157.5°	493.9	498.4	511.8	532.8	564.2	583.7	601.6	639.0	678.0	713.9	748.3
160°	498.4	501.4	511.8	529.8	552.2	565.7	582.2	616.6	649.5	680.9	710.9
162.5°	502.9	504.3	511.8	525.3	541.8	550.7	562.7	589.7	619.6	646.5	673.5
165°	505.8	507.3	511.8	522.3	532.8	540.3	546.3	565.7	588.2	612.1	634.6
167.5°	508.8	508.8	511.8	519.3	525.3	529.8	534.3	544.8	559.7	577.7	594.1
170°	510.3	510.3	511.8	516.3	520.8	522.3	525.3	531.3	538.8	547.7	558.2
172.5°	510.3	510.3	510.3	513.3	514.8	514.8	514.8	517.8	522.3	528.3	532.8
175°	510.3	508.8	508.8	510.3	508.8	508.8	508.8	508.8	510.3	513.3	514.8
177.5°	510.3	508.8	507.3	507.3	505.8	505.8	504.3	504.3	504.3	504.3	504.3
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7
2.5°	332.2	332.2	330.7	329.2	329.2	329.2	327.8	326.3	324.8	324.8
5°	332.2	332.2	330.7	330.7	330.7	330.7	329.2	329.2	327.8	327.8
7.5°	333.7	332.2	332.2	332.2	332.2	332.2	332.2	332.2	330.7	330.7
10°	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7	333.7
12.5°	335.2	335.2	335.2	335.2	336.7	336.7	336.7	336.7	336.7	336.7
15°	335.2	336.7	338.2	338.2	338.2	339.7	339.7	339.7	339.7	339.7
17.5°	336.7	338.2	339.7	339.7	341.2	341.2	342.7	342.7	342.7	342.7
20°	336.7	338.2	339.7	341.2	342.7	342.7	344.2	345.7	345.7	344.2
22.5°	335.2	338.2	339.7	341.2	342.7	344.2	345.7	347.2	347.2	347.2
25°	333.7	336.7	339.7	342.7	342.7	344.2	347.2	347.2	347.2	347.2
27.5°	332.2	335.2	338.2	341.2	342.7	344.2	345.7	347.2	347.2	347.2
30°	329.2	333.7	336.7	339.7	341.2	342.7	344.2	345.7	345.7	345.7
32.5°	324.8	329.2	332.2	336.7	338.2	339.7	341.2	342.7	342.7	342.7
35°	320.3	324.8	327.8	332.2	333.7	335.2	338.2	338.2	339.7	339.7
37.5°	312.8	318.8	321.8	326.3	327.8	329.2	332.2	333.7	333.7	333.7
40°	305.3	311.3	314.3	318.8	320.3	321.8	324.8	326.3	327.8	327.8
42.5°	296.3	302.3	305.3	309.8	311.3	312.8	315.8	317.3	318.8	318.8
45°	287.3	291.8	294.8	299.3	302.3	302.3	305.3	306.8	308.3	308.3
47.5°	275.4	279.9	282.9	287.3	290.3	291.8	293.3	294.8	296.3	296.3
50°	261.9	266.4	270.9	273.9	276.9	276.9	279.9	281.4	282.9	282.9
52.5°	248.4	251.4	255.9	260.4	261.9	263.4	264.9	266.4	267.9	267.9
55°	233.5	236.5	240.9	243.9	245.4	246.9	248.4	249.9	251.4	251.4
57.5°	217.0	220.0	224.5	227.5	229.0	230.5	232.0	233.5	235.0	235.0
60°	199.0	202.0	206.5	209.5	211.0	211.0	214.0	215.5	215.5	215.5
62.5°	181.1	184.1	187.1	190.1	191.6	193.1	194.6	196.1	196.1	196.1
65°	163.1	166.1	169.1	170.6	172.1	172.1	173.6	175.1	176.6	176.6
67.5°	143.7	146.7	149.7	151.2	152.7	152.7	154.1	155.6	155.6	155.6
70°	124.2	125.7	128.7	130.2	131.7	131.7	134.7	134.7	134.7	134.7
72.5°	104.8	106.3	109.3	110.7	112.2	112.2	113.7	115.2	115.2	115.2
75°	86.8	88.3	89.8	92.8	92.8	92.8	94.3	95.8	95.8	95.8
77.5°	68.8	70.3	71.8	73.3	74.8	74.8	76.3	77.8	77.8	77.8
80°	52.4	53.9	55.4	56.9	56.9	58.4	58.4	59.9	59.9	59.9
82.5°	37.4	38.9	40.4	41.9	43.4	43.4	44.9	46.4	46.4	44.9
85°	25.4	28.4	29.9	31.4	31.4	31.4	32.9	34.4	34.4	32.9
87.5°	18.0	18.0	19.5	21.0	21.0	22.4	22.4	23.9	23.9	23.9
90°	10.5	10.5	12.0	12.0	13.5	13.5	13.5	15.0	15.0	15.0
92.5°	25.4	25.4	26.9	26.9	26.9	26.9	28.4	28.4	28.4	28.4
95°	272.4	122.7	103.3	62.9	59.9	52.4	50.9	52.4	52.4	50.9
97.5°	914.4	978.8	1019.2	1038.6	1014.7	989.2	960.8	956.3	917.4	830.6
100°	986.2	1037.1	1086.5	1120.9	1134.4	1146.4	1173.3	1189.8	1197.3	1204.7
102.5°	1022.2	1076.0	1119.4	1162.8	1180.8	1197.3	1221.2	1240.7	1248.2	1254.1
105°	1053.6	1109.0	1156.9	1195.8	1212.2	1227.2	1251.1	1269.1	1282.6	1284.1
107.5°	1061.1	1119.4	1173.3	1221.2	1240.7	1257.1	1285.6	1299.0	1311.0	1311.0
110°	1074.5	1129.9	1179.3	1222.7	1242.2	1261.6	1291.6	1312.5	1324.5	1327.5





TEST NUMBER: P395759

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1085.0	1141.9	1188.3	1231.7	1248.2	1266.1	1294.5	1314.0	1324.5	1329.0
115°	1094.0	1149.4	1195.8	1236.2	1254.1	1272.1	1300.5	1317.0	1329.0	1333.5
117.5°	1100.0	1153.9	1200.3	1237.7	1257.1	1272.1	1299.0	1317.0	1329.0	1330.5
120°	1101.5	1155.4	1200.3	1237.7	1254.1	1270.6	1297.5	1315.5	1327.5	1327.5
122.5°	1101.5	1153.9	1198.8	1234.7	1249.6	1264.6	1290.1	1311.0	1321.5	1321.5
125°	1095.5	1147.9	1191.3	1227.2	1242.2	1255.6	1282.6	1302.0	1312.5	1314.0
127.5°	1086.5	1137.4	1180.8	1216.7	1231.7	1243.7	1272.1	1290.1	1300.5	1302.0
130°	1074.5	1125.4	1167.3	1201.8	1216.7	1230.2	1254.1	1273.6	1285.6	1288.6
132.5°	1061.1	1109.0	1150.9	1183.8	1198.8	1210.7	1234.7	1254.1	1264.6	1269.1
135°	1044.6	1089.5	1129.9	1162.8	1177.8	1189.8	1212.2	1231.7	1242.2	1246.7
137.5°	1023.7	1067.1	1106.0	1138.9	1152.4	1164.3	1186.8	1204.7	1213.7	1219.7
140°	999.7	1040.1	1080.5	1110.5	1123.9	1135.9	1155.4	1174.8	1183.8	1188.3
142.5°	974.3	1014.7	1050.6	1080.5	1092.5	1104.5	1123.9	1141.9	1150.9	1152.4
145°	947.3	986.2	1019.2	1047.6	1058.1	1070.1	1088.0	1106.0	1115.0	1116.5
147.5°	917.4	953.3	984.8	1011.7	1023.7	1032.6	1049.1	1065.6	1074.5	1076.0
150°	883.0	915.9	944.3	971.3	981.8	990.7	1008.7	1023.7	1032.6	1034.1
152.5°	850.1	881.5	905.4	929.4	939.9	948.8	963.8	978.8	987.7	989.2
155°	815.6	844.1	868.0	887.5	896.5	905.4	917.4	930.9	938.4	939.9
157.5°	779.7	806.7	827.6	845.6	854.5	862.0	872.5	884.5	889.0	892.0
160°	740.8	763.3	781.2	799.2	806.7	814.1	824.6	833.6	839.6	841.1
162.5°	698.9	718.4	733.3	749.8	754.3	760.3	770.7	779.7	784.2	785.7
165°	655.5	673.5	686.9	700.4	703.4	707.9	715.4	724.3	727.3	730.3
167.5°	612.1	627.1	636.0	648.0	652.5	655.5	663.0	669.0	672.0	673.5
170°	570.2	580.7	588.2	597.1	598.6	603.1	607.6	613.6	615.1	615.1
172.5°	537.3	541.8	546.3	549.2	550.7	552.2	555.2	556.7	556.7	556.7
175°	516.3	519.3	519.3	520.8	520.8	520.8	520.8	520.8	520.8	520.8
177.5°	504.3	504.3	504.3	502.9	502.9	502.9	502.9	501.4	501.4	501.4
180°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4

(END OF REPORT)