

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: P395784

Luminaire Tested: **I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395784  
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-80L83050-1D-UNV-W2A-W-4 (3000K)  
Description: CORELITE I3, OPEN TOP  
8000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7599.4 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

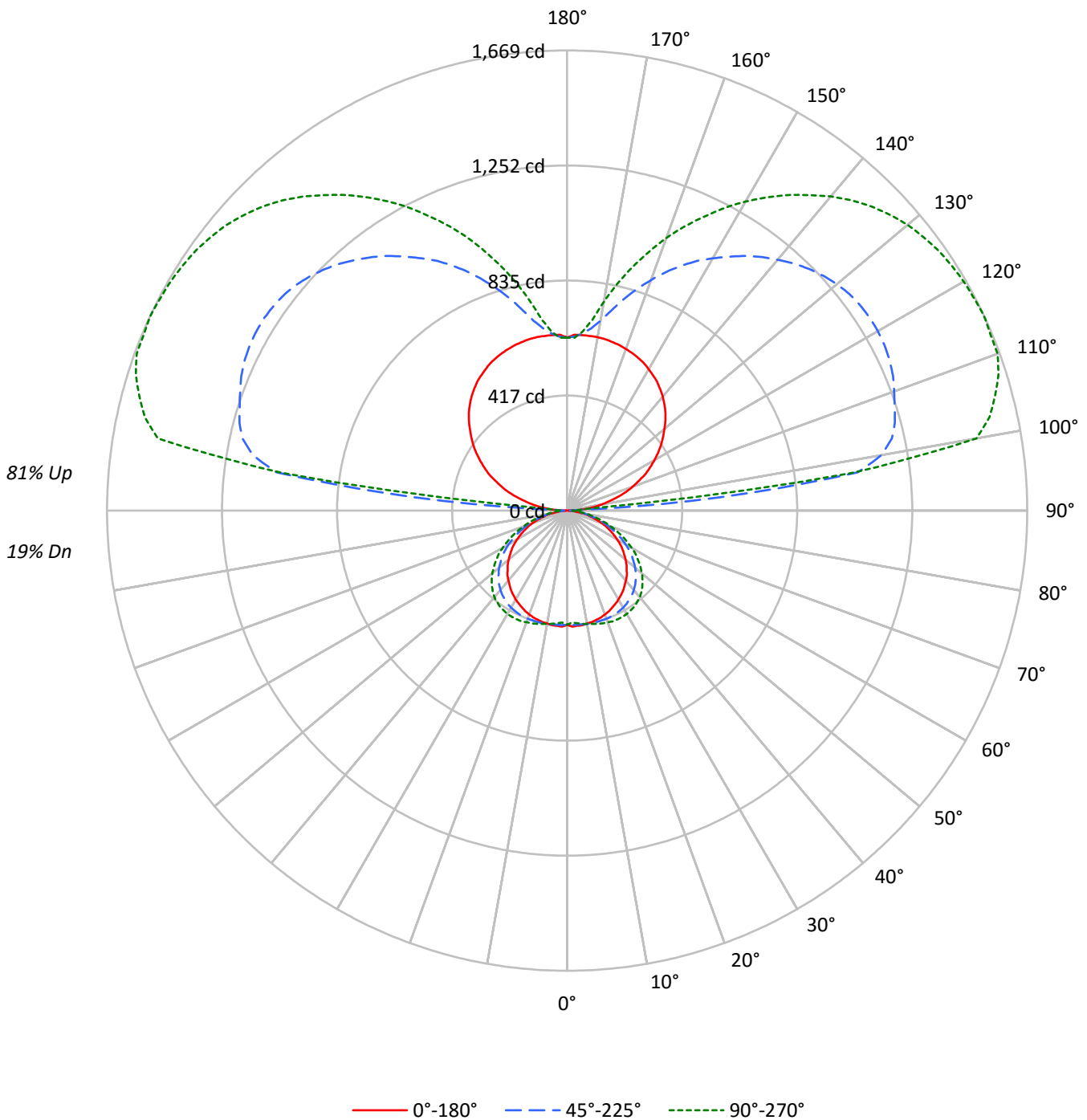
Input Watts (W): 62.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

### 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	50	30	10	0		
RCR																										
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19					19			
1	91	87	83	79	80	76	73	71	58	56	54	40	39	38	24	24	23	16					16			
2	82	75	69	64	72	67	62	58	50	47	44	35	33	31	21	20	19	13					13			
3	75	66	59	53	66	58	52	48	44	40	37	31	28	26	19	17	16	11					11			
4	68	58	51	45	60	51	45	40	39	35	31	27	24	22	16	15	14	9					9			
5	63	51	44	38	55	46	39	34	35	30	26	24	21	19	15	13	12	8					8			
6	57	46	38	33	50	41	34	29	31	26	23	22	19	16	13	12	10	7					7			
7	53	41	34	28	46	37	30	25	28	23	20	20	17	14	12	10	9	6					6			
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5					5			
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5					5			
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	8	6	4					4			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2275	2275	2275
5°	2306	2242	2199
10°	2303	2226	2201
15°	2308	2218	2221
20°	2309	2227	2247
25°	2306	2233	2281
30°	2309	2236	2302
35°	2307	2225	2313
40°	2297	2208	2300
45°	2276	2162	2249
50°	2256	2092	2166
55°	2216	1990	2042
60°	2148	1847	1880
65°	2053	1644	1676
70°	1940	1427	1414
75°	1682	1118	1135
80°	1336	804	820
85°	793	469	540



TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	0.5
10°-20°	118.1	1.6
20°-30°	190.0	2.5
30°-40°	244.5	3.2
40°-50°	268.5	3.5
50°-60°	252.4	3.3
60°-70°	196.1	2.6
70°-80°	112.5	1.5
80°-90°	36.1	0.5
90°-100°	485.8	6.4
100°-110°	1154.4	15.2
110°-120°	1159.7	15.3
120°-130°	1063.5	14.0
130°-140°	889.3	11.7
140°-150°	667.5	8.8
150°-160°	434.5	5.7
160°-170°	223.8	2.9
170°-180°	63.3	0.8
0°-30°	347.7	4.6
0°-40°	592.2	7.8
0°-60°	1113.1	14.6
0°-90°	1457.7	19.2
90°-120°	2799.9	36.8
90°-150°	5420.1	71.3
90°-180°	6142.0	80.8
0°-180°	7599.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	420	416	416	414	410	40
15°	410	408	418	423	425	116
25°	388	391	414	429	434	179
35°	354	363	393	418	425	221
45°	305	320	352	378	386	236
55°	245	258	286	307	315	219
65°	172	182	198	215	221	171
75°	92	96	105	116	120	98
85°	19	22	30	39	41	22
90°	2	6	11	17	19	6
95°	66	543	558	75	64	65
105°	189	728	1230	1517	1607	200
115°	313	820	1290	1570	1669	307
125°	416	856	1298	1554	1644	371
135°	504	852	1240	1474	1560	388
145°	569	817	1128	1324	1397	356
155°	611	749	980	1122	1176	282
165°	633	676	794	880	914	179
175°	639	637	644	652	652	61
180°	627	627	627	627	627	



TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9
2.5°	421.4	419.5	417.6	417.6	415.8	415.8	415.8	413.9	413.9	413.9	415.8
5°	419.5	419.5	417.6	415.8	415.8	415.8	413.9	413.9	413.9	413.9	415.8
7.5°	419.5	417.6	415.8	415.8	413.9	413.9	413.9	413.9	413.9	413.9	415.8
10°	415.8	415.8	413.9	413.9	412.0	413.9	413.9	413.9	413.9	413.9	417.6
12.5°	413.9	413.9	412.0	410.2	410.2	410.2	412.0	412.0	412.0	413.9	417.6
15°	410.2	410.2	408.3	408.3	408.3	408.3	410.2	410.2	412.0	413.9	417.6
17.5°	406.4	406.4	404.5	404.5	404.5	406.4	406.4	408.3	410.2	413.9	417.6
20°	400.8	400.8	400.8	400.8	400.8	402.7	402.7	404.5	408.3	412.0	417.6
22.5°	395.2	395.2	395.2	395.2	395.2	397.0	398.9	402.7	404.5	410.2	415.8
25°	387.7	387.7	387.7	387.7	389.6	391.4	393.3	397.0	400.8	406.4	413.9
27.5°	380.2	382.1	382.1	382.1	383.9	385.8	387.7	391.4	397.0	404.5	410.2
30°	372.7	372.7	372.7	374.6	376.4	378.3	382.1	385.8	391.4	398.9	406.4
32.5°	363.3	363.3	365.2	365.2	369.0	370.8	374.6	380.2	385.8	393.3	400.8
35°	354.0	354.0	354.0	357.7	359.6	363.3	365.2	370.8	378.3	385.8	393.3
37.5°	342.7	344.6	344.6	346.5	350.2	354.0	355.8	363.3	370.8	378.3	385.8
40°	331.5	333.4	333.4	335.2	340.9	342.7	346.5	354.0	359.6	369.0	376.4
42.5°	320.3	320.3	322.1	324.0	329.6	331.5	335.2	342.7	350.2	357.7	365.2
45°	305.3	307.1	309.0	310.9	316.5	320.3	324.0	329.6	337.1	344.6	352.1
47.5°	292.2	292.2	294.0	297.8	303.4	307.1	309.0	316.5	322.1	329.6	337.1
50°	277.2	279.1	279.1	282.8	288.4	292.2	294.0	301.5	307.1	314.6	322.1
52.5°	260.3	262.2	264.1	267.8	273.4	277.2	279.1	284.7	290.3	297.8	303.4
55°	245.3	247.2	247.2	251.0	256.6	258.5	262.2	265.9	273.4	279.1	286.5
57.5°	228.5	230.4	230.4	234.1	237.9	241.6	243.5	249.1	254.7	260.3	265.9
60°	209.8	211.6	213.5	215.4	219.1	222.9	224.7	228.5	234.1	239.7	245.3
62.5°	191.0	192.9	194.8	196.7	200.4	202.3	204.1	209.8	213.5	219.1	222.9
65°	172.3	174.2	176.0	177.9	179.8	181.7	183.5	187.3	191.0	196.7	198.5
67.5°	153.6	155.4	155.4	157.3	159.2	161.1	162.9	166.7	168.6	174.2	176.0
70°	134.8	134.8	134.8	136.7	136.7	138.6	140.5	144.2	146.1	149.8	153.6
72.5°	112.4	114.2	114.2	114.2	116.1	118.0	119.9	121.7	123.6	125.5	129.2
75°	91.8	93.6	91.8	93.6	95.5	95.5	97.4	99.3	101.1	103.0	104.9
77.5°	73.0	71.2	73.0	73.0	74.9	74.9	74.9	76.8	80.5	80.5	84.3
80°	52.4	52.4	52.4	52.4	54.3	54.3	56.2	56.2	59.9	61.8	63.7
82.5°	33.7	33.7	35.6	35.6	35.6	37.5	37.5	39.3	41.2	43.1	44.9
85°	18.7	18.7	18.7	20.6	20.6	22.5	22.5	24.3	26.2	28.1	30.0
87.5°	5.6	7.5	9.4	9.4	11.2	11.2	13.1	13.1	16.9	18.7	20.6
90°	1.9	1.9	3.7	3.7	3.7	5.6	5.6	7.5	7.5	9.4	11.2
92.5°	31.8	74.9	155.4	232.2	200.4	187.3	112.4	33.7	30.0	31.8	31.8
95°	65.6	123.6	226.6	367.1	475.7	543.1	588.1	674.2	762.3	747.3	558.1
97.5°	95.5	159.2	273.4	402.7	552.5	629.3	687.3	790.3	902.7	996.4	1063.8
100°	125.5	191.0	312.8	447.6	586.2	655.5	722.9	863.4	973.9	1067.5	1157.4
102.5°	157.3	222.9	348.4	488.8	625.5	693.0	758.5	882.1	1005.7	1118.1	1206.1
105°	189.2	256.6	380.2	524.4	661.1	728.5	792.2	910.2	1024.5	1129.3	1230.5
107.5°	222.9	286.5	408.3	552.5	689.2	756.6	820.3	938.3	1048.8	1153.7	1245.5
110°	252.8	314.6	436.4	578.7	715.4	782.9	846.5	964.5	1073.2	1172.4	1262.3



TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	280.9	340.9	462.6	601.2	736.0	803.5	865.3	983.3	1091.9	1189.3	1279.2
115°	312.8	365.2	488.8	621.8	754.8	820.3	882.1	998.2	1106.9	1202.4	1290.4
117.5°	339.0	389.6	511.3	638.6	769.7	833.4	893.4	1009.5	1116.2	1211.7	1297.9
120°	365.2	412.0	531.9	653.6	781.0	842.8	902.7	1017.0	1123.7	1217.4	1301.6
122.5°	391.4	434.5	548.7	668.6	790.3	852.2	910.2	1022.6	1127.5	1219.2	1301.6
125°	415.8	453.2	563.7	679.8	796.0	855.9	912.1	1022.6	1125.6	1215.5	1297.9
127.5°	438.3	473.8	575.0	691.1	799.7	857.8	912.1	1018.8	1121.8	1209.9	1290.4
130°	460.7	492.6	586.2	696.7	803.5	855.9	908.3	1011.3	1112.5	1200.5	1277.3
132.5°	483.2	513.2	595.6	702.3	805.3	855.9	904.6	1003.9	1101.2	1187.4	1260.4
135°	503.8	528.1	604.9	706.1	803.5	852.2	897.1	990.7	1084.4	1168.7	1239.8
137.5°	522.5	543.1	612.4	707.9	801.6	846.5	891.5	975.8	1063.8	1146.2	1215.5
140°	539.4	558.1	616.2	707.9	794.1	839.0	880.2	960.8	1041.3	1120.0	1187.4
142.5°	554.4	571.2	621.8	704.2	786.6	829.7	869.0	945.8	1018.8	1093.8	1159.3
145°	569.4	582.5	625.5	702.3	777.2	816.6	854.0	927.1	998.2	1065.7	1127.5
147.5°	580.6	593.7	629.3	694.8	766.0	801.6	837.2	906.5	972.0	1035.7	1091.9
150°	591.8	603.1	631.2	687.3	752.9	784.7	816.6	882.1	945.8	1003.9	1056.3
152.5°	603.1	610.6	636.8	679.8	737.9	767.9	799.7	857.8	915.8	970.1	1020.7
155°	610.6	616.2	638.6	672.4	722.9	749.1	775.4	829.7	882.1	932.7	979.5
157.5°	618.0	623.7	640.5	666.7	706.1	730.4	752.9	799.7	848.4	893.4	936.4
160°	623.7	627.4	640.5	663.0	691.1	707.9	728.5	771.6	812.8	852.2	889.6
162.5°	629.3	631.2	640.5	657.4	678.0	689.2	704.2	737.9	775.4	809.1	842.8
165°	633.0	634.9	640.5	653.6	666.7	676.1	683.6	707.9	736.0	766.0	794.1
167.5°	636.8	636.8	640.5	649.9	657.4	663.0	668.6	681.7	700.5	722.9	743.5
170°	638.6	638.6	640.5	646.1	651.8	653.6	657.4	664.9	674.2	685.5	698.6
172.5°	638.6	638.6	638.6	642.4	644.3	644.3	644.3	648.0	653.6	661.1	666.7
175°	638.6	636.8	636.8	638.6	636.8	636.8	636.8	636.8	638.6	642.4	644.3
177.5°	638.6	636.8	634.9	634.9	633.0	633.0	631.2	631.2	631.2	631.2	631.2
180°	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4



TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9	413.9
2.5°	415.8	415.8	413.9	412.0	412.0	412.0	410.2	408.3	406.4	406.4
5°	415.8	415.8	413.9	413.9	413.9	413.9	412.0	412.0	410.2	410.2
7.5°	417.6	415.8	415.8	415.8	415.8	415.8	415.8	415.8	413.9	413.9
10°	417.6	417.6	417.6	417.6	417.6	417.6	417.6	417.6	417.6	417.6
12.5°	419.5	419.5	419.5	419.5	421.4	421.4	421.4	421.4	421.4	421.4
15°	419.5	421.4	423.3	423.3	423.3	425.1	425.1	425.1	425.1	425.1
17.5°	421.4	423.3	425.1	425.1	427.0	427.0	428.9	428.9	428.9	428.9
20°	421.4	423.3	425.1	427.0	428.9	428.9	430.8	432.6	432.6	430.8
22.5°	419.5	423.3	425.1	427.0	428.9	430.8	432.6	434.5	434.5	434.5
25°	417.6	421.4	425.1	428.9	428.9	430.8	434.5	434.5	434.5	434.5
27.5°	415.8	419.5	423.3	427.0	428.9	430.8	432.6	434.5	434.5	434.5
30°	412.0	417.6	421.4	425.1	427.0	428.9	430.8	432.6	432.6	432.6
32.5°	406.4	412.0	415.8	421.4	423.3	425.1	427.0	428.9	428.9	428.9
35°	400.8	406.4	410.2	415.8	417.6	419.5	423.3	423.3	425.1	425.1
37.5°	391.4	398.9	402.7	408.3	410.2	412.0	415.8	417.6	417.6	417.6
40°	382.1	389.6	393.3	398.9	400.8	402.7	406.4	408.3	410.2	410.2
42.5°	370.8	378.3	382.1	387.7	389.6	391.4	395.2	397.0	398.9	398.9
45°	359.6	365.2	369.0	374.6	378.3	378.3	382.1	383.9	385.8	385.8
47.5°	344.6	350.2	354.0	359.6	363.3	365.2	367.1	369.0	370.8	370.8
50°	327.8	333.4	339.0	342.7	346.5	346.5	350.2	352.1	354.0	354.0
52.5°	310.9	314.6	320.3	325.9	327.8	329.6	331.5	333.4	335.2	335.2
55°	292.2	295.9	301.5	305.3	307.1	309.0	310.9	312.8	314.6	314.6
57.5°	271.6	275.3	280.9	284.7	286.5	288.4	290.3	292.2	294.0	294.0
60°	249.1	252.8	258.5	262.2	264.1	264.1	267.8	269.7	269.7	269.7
62.5°	226.6	230.4	234.1	237.9	239.7	241.6	243.5	245.3	245.3	245.3
65°	204.1	207.9	211.6	213.5	215.4	215.4	217.3	219.1	221.0	221.0
67.5°	179.8	183.5	187.3	189.2	191.0	191.0	192.9	194.8	194.8	194.8
70°	155.4	157.3	161.1	162.9	164.8	164.8	168.6	168.6	168.6	168.6
72.5°	131.1	133.0	136.7	138.6	140.5	140.5	142.3	144.2	144.2	144.2
75°	108.6	110.5	112.4	116.1	116.1	116.1	118.0	119.9	119.9	119.9
77.5°	86.2	88.0	89.9	91.8	93.6	93.6	95.5	97.4	97.4	97.4
80°	65.6	67.4	69.3	71.2	71.2	73.0	73.0	74.9	74.9	74.9
82.5°	46.8	48.7	50.6	52.4	54.3	54.3	56.2	58.1	58.1	56.2
85°	31.8	35.6	37.5	39.3	39.3	39.3	41.2	43.1	43.1	41.2
87.5°	22.5	22.5	24.3	26.2	26.2	28.1	28.1	30.0	30.0	30.0
90°	13.1	13.1	15.0	15.0	16.9	16.9	16.9	18.7	18.7	18.7
92.5°	31.8	31.8	33.7	33.7	33.7	33.7	35.6	35.6	35.6	35.6
95°	340.9	153.6	129.2	78.7	74.9	65.6	63.7	65.6	65.6	63.7
97.5°	1144.3	1224.9	1275.4	1299.8	1269.8	1238.0	1202.4	1196.8	1148.1	1039.4
100°	1234.2	1297.9	1359.7	1402.8	1419.6	1434.6	1468.3	1488.9	1498.3	1507.7
102.5°	1279.2	1346.6	1400.9	1455.2	1477.7	1498.3	1528.3	1552.6	1562.0	1569.5
105°	1318.5	1387.8	1447.7	1496.4	1517.0	1535.7	1565.7	1588.2	1605.0	1606.9
107.5°	1327.9	1400.9	1468.3	1528.3	1552.6	1573.2	1608.8	1625.6	1640.6	1640.6
110°	1344.7	1414.0	1475.8	1530.1	1554.5	1578.8	1616.3	1642.5	1657.5	1661.2





TEST NUMBER: P395784

CATALOG NUMBER: I3-UL-80L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1357.8	1429.0	1487.1	1541.4	1562.0	1584.4	1620.0	1644.4	1657.5	1663.1
115°	1369.1	1438.4	1496.4	1547.0	1569.5	1591.9	1627.5	1648.1	1663.1	1668.7
117.5°	1376.6	1444.0	1502.0	1548.9	1573.2	1591.9	1625.6	1648.1	1663.1	1665.0
120°	1378.4	1445.9	1502.0	1548.9	1569.5	1590.1	1623.8	1646.2	1661.2	1661.2
122.5°	1378.4	1444.0	1500.2	1545.1	1563.8	1582.6	1614.4	1640.6	1653.7	1653.7
125°	1370.9	1436.5	1490.8	1535.7	1554.5	1571.3	1605.0	1629.4	1642.5	1644.4
127.5°	1359.7	1423.4	1477.7	1522.6	1541.4	1556.4	1591.9	1614.4	1627.5	1629.4
130°	1344.7	1408.4	1460.8	1503.9	1522.6	1539.5	1569.5	1593.8	1608.8	1612.5
132.5°	1327.9	1387.8	1440.2	1481.4	1500.2	1515.1	1545.1	1569.5	1582.6	1588.2
135°	1307.3	1363.4	1414.0	1455.2	1473.9	1488.9	1517.0	1541.4	1554.5	1560.1
137.5°	1281.0	1335.4	1384.0	1425.2	1442.1	1457.1	1485.2	1507.7	1518.9	1526.4
140°	1251.1	1301.6	1352.2	1389.7	1406.5	1421.5	1445.9	1470.2	1481.4	1487.1
142.5°	1219.2	1269.8	1314.8	1352.2	1367.2	1382.2	1406.5	1429.0	1440.2	1442.1
145°	1185.5	1234.2	1275.4	1311.0	1324.1	1339.1	1361.6	1384.0	1395.3	1397.2
147.5°	1148.1	1193.0	1232.3	1266.1	1281.0	1292.3	1312.9	1333.5	1344.7	1346.6
150°	1105.0	1146.2	1181.8	1215.5	1228.6	1239.8	1262.3	1281.0	1292.3	1294.1
152.5°	1063.8	1103.1	1133.1	1163.0	1176.2	1187.4	1206.1	1224.9	1236.1	1238.0
155°	1020.7	1056.3	1086.3	1110.6	1121.8	1133.1	1148.1	1164.9	1174.3	1176.2
157.5°	975.8	1009.5	1035.7	1058.2	1069.4	1078.8	1091.9	1106.9	1112.5	1116.2
160°	927.1	955.2	977.6	1000.1	1009.5	1018.8	1031.9	1043.2	1050.7	1052.5
162.5°	874.6	899.0	917.7	938.3	943.9	951.4	964.5	975.8	981.4	983.3
165°	820.3	842.8	859.6	876.5	880.2	885.9	895.2	906.5	910.2	914.0
167.5°	766.0	784.7	796.0	811.0	816.6	820.3	829.7	837.2	840.9	842.8
170°	713.6	726.7	736.0	747.3	749.1	754.8	760.4	767.9	769.7	769.7
172.5°	672.4	678.0	683.6	687.3	689.2	691.1	694.8	696.7	696.7	696.7
175°	646.1	649.9	649.9	651.8	651.8	651.8	651.8	651.8	651.8	651.8
177.5°	631.2	631.2	631.2	629.3	629.3	629.3	629.3	627.4	627.4	627.4
180°	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4	627.4

(END OF REPORT)