

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: P395761

Luminaire Tested: **I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395761  
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 (4500K)  
Description: CORELITE I3, OPEN TOP  
6000 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: 6449.1 lumens  
Efficiency: N/A  
Efficacy: 139.3 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

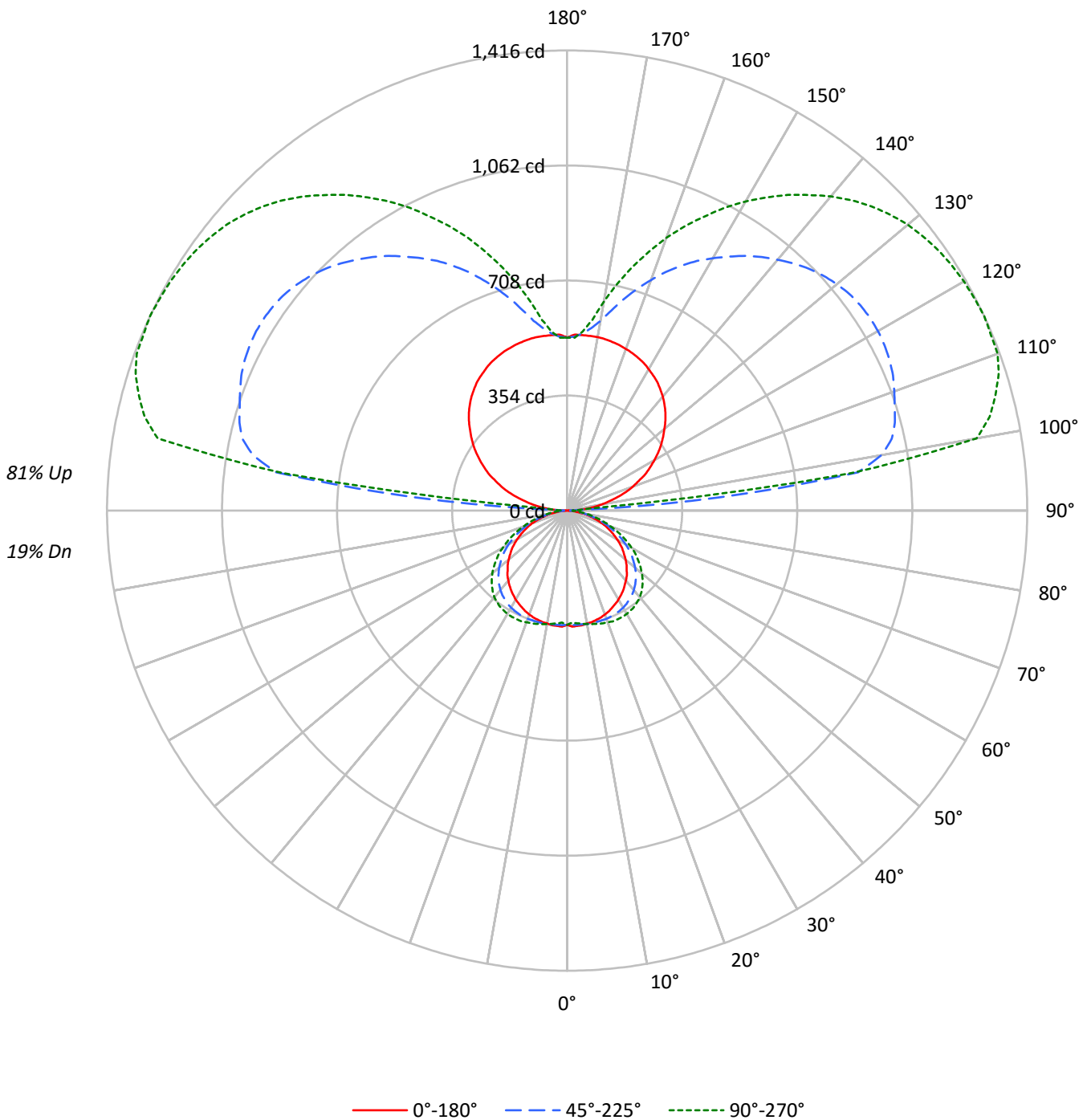
Input Watts (W): 46.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

### 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°	1931	1931	1931
5°	1957	1902	1866
10°	1954	1889	1868
15°	1958	1883	1885
20°	1959	1890	1907
25°	1956	1896	1935
30°	1959	1898	1954
35°	1957	1888	1963
40°	1949	1874	1952
45°	1932	1835	1909
50°	1914	1775	1838
55°	1881	1689	1733
60°	1822	1567	1595
65°	1742	1396	1422
70°	1646	1210	1200
75°	1428	949	962
80°	1135	682	696
85°	675	397	459



TEST NUMBER: P395761

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	0.5
10°-20°	100.2	1.6
20°-30°	161.2	2.5
30°-40°	207.5	3.2
40°-50°	227.9	3.5
50°-60°	214.2	3.3
60°-70°	166.4	2.6
70°-80°	95.5	1.5
80°-90°	30.6	0.5
90°-100°	412.3	6.4
100°-110°	979.7	15.2
110°-120°	984.1	15.3
120°-130°	902.5	14.0
130°-140°	754.7	11.7
140°-150°	566.4	8.8
150°-160°	368.7	5.7
160°-170°	189.9	2.9
170°-180°	53.7	0.8
0°-30°	295.1	4.6
0°-40°	502.5	7.8
0°-60°	944.6	14.6
0°-90°	1237.1	19.2
90°-120°	2376.1	36.8
90°-150°	4599.7	71.3
90°-180°	5212.0	80.8
0°-180°	6449.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	351	351	351	351	351	
5°	356	353	353	351	348	34
15°	348	346	354	359	361	98
25°	329	332	351	364	369	152
35°	300	308	334	354	361	188
45°	259	272	299	321	327	200
55°	208	219	243	261	267	186
65°	146	154	168	183	188	145
75°	78	81	89	98	102	83
85°	16	19	25	33	35	19
90°	2	5	10	14	16	5
95°	56	461	474	64	54	55
105°	160	618	1044	1287	1364	170
115°	265	696	1095	1332	1416	261
125°	353	726	1101	1319	1396	315
135°	428	723	1052	1251	1324	329
145°	483	693	957	1124	1186	302
155°	518	636	831	952	998	239
165°	537	574	674	747	776	152
175°	542	540	547	553	553	52
180°	532	532	532	532	532	



TEST NUMBER: P395761

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3
2.5°	357.6	356.0	354.4	354.4	352.8	352.8	352.8	351.3	351.3	351.3	352.8
5°	356.0	356.0	354.4	352.8	352.8	352.8	351.3	351.3	351.3	351.3	352.8
7.5°	356.0	354.4	352.8	352.8	351.3	351.3	351.3	351.3	351.3	351.3	352.8
10°	352.8	352.8	351.3	351.3	349.7	351.3	351.3	351.3	351.3	351.3	354.4
12.5°	351.3	351.3	349.7	348.1	348.1	348.1	349.7	349.7	349.7	351.3	354.4
15°	348.1	348.1	346.5	346.5	346.5	346.5	348.1	348.1	349.7	351.3	354.4
17.5°	344.9	344.9	343.3	343.3	343.3	344.9	344.9	346.5	348.1	351.3	354.4
20°	340.1	340.1	340.1	340.1	340.1	341.7	341.7	343.3	346.5	349.7	354.4
22.5°	335.4	335.4	335.4	335.4	335.4	336.9	338.5	341.7	343.3	348.1	352.8
25°	329.0	329.0	329.0	329.0	330.6	332.2	333.8	336.9	340.1	344.9	351.3
27.5°	322.6	324.2	324.2	324.2	325.8	327.4	329.0	332.2	336.9	343.3	348.1
30°	316.3	316.3	316.3	317.9	319.5	321.1	324.2	327.4	332.2	338.5	344.9
32.5°	308.3	308.3	309.9	309.9	313.1	314.7	317.9	322.6	327.4	333.8	340.1
35°	300.4	300.4	300.4	303.6	305.2	308.3	309.9	314.7	321.1	327.4	333.8
37.5°	290.9	292.4	292.4	294.0	297.2	300.4	302.0	308.3	314.7	321.1	327.4
40°	281.3	282.9	282.9	284.5	289.3	290.9	294.0	300.4	305.2	313.1	319.5
42.5°	271.8	271.8	273.4	275.0	279.7	281.3	284.5	290.9	297.2	303.6	309.9
45°	259.1	260.7	262.2	263.8	268.6	271.8	275.0	279.7	286.1	292.4	298.8
47.5°	247.9	247.9	249.5	252.7	257.5	260.7	262.2	268.6	273.4	279.7	286.1
50°	235.2	236.8	236.8	240.0	244.8	247.9	249.5	255.9	260.7	267.0	273.4
52.5°	220.9	222.5	224.1	227.3	232.0	235.2	236.8	241.6	246.4	252.7	257.5
55°	208.2	209.8	209.8	213.0	217.7	219.3	222.5	225.7	232.0	236.8	243.2
57.5°	193.9	195.5	195.5	198.7	201.9	205.0	206.6	211.4	216.2	220.9	225.7
60°	178.0	179.6	181.2	182.8	186.0	189.1	190.7	193.9	198.7	203.4	208.2
62.5°	162.1	163.7	165.3	166.9	170.1	171.7	173.2	178.0	181.2	186.0	189.1
65°	146.2	147.8	149.4	151.0	152.6	154.2	155.8	158.9	162.1	166.9	168.5
67.5°	130.3	131.9	131.9	133.5	135.1	136.7	138.3	141.5	143.0	147.8	149.4
70°	114.4	114.4	114.4	116.0	116.0	117.6	119.2	122.4	124.0	127.1	130.3
72.5°	95.4	97.0	97.0	97.0	98.5	100.1	101.7	103.3	104.9	106.5	109.7
75°	77.9	79.5	77.9	79.5	81.1	81.1	82.6	84.2	85.8	87.4	89.0
77.5°	62.0	60.4	62.0	62.0	63.6	63.6	63.6	65.2	68.3	68.3	71.5
80°	44.5	44.5	44.5	44.5	46.1	46.1	47.7	47.7	50.9	52.4	54.0
82.5°	28.6	28.6	30.2	30.2	30.2	31.8	31.8	33.4	35.0	36.6	38.1
85°	15.9	15.9	15.9	17.5	17.5	19.1	19.1	20.7	22.3	23.8	25.4
87.5°	4.8	6.4	7.9	7.9	9.5	9.5	11.1	11.1	14.3	15.9	17.5
90°	1.6	1.6	3.2	3.2	3.2	4.8	4.8	6.4	6.4	7.9	9.5
92.5°	27.0	63.6	131.9	197.1	170.1	158.9	95.4	28.6	25.4	27.0	27.0
95°	55.6	104.9	192.3	311.5	403.7	460.9	499.1	572.2	646.9	634.2	473.6
97.5°	81.1	135.1	232.0	341.7	468.9	534.0	583.3	670.7	766.1	845.5	902.8
100°	106.5	162.1	265.4	379.9	497.5	556.3	613.5	732.7	826.5	905.9	982.2
102.5°	133.5	189.1	295.6	414.8	530.9	588.1	643.7	748.6	853.5	948.9	1023.6
105°	160.5	217.7	322.6	445.0	561.0	618.3	672.3	772.4	869.4	958.4	1044.2
107.5°	189.1	243.2	346.5	468.9	584.9	642.1	696.1	796.3	890.0	979.1	1056.9
110°	214.6	267.0	370.3	491.1	607.1	664.4	718.4	818.5	910.7	994.9	1071.2



TEST NUMBER: P395761

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	238.4	289.3	392.6	510.2	624.6	681.8	734.3	834.4	926.6	1009.3	1085.5
115°	265.4	309.9	414.8	527.7	640.5	696.1	748.6	847.1	939.3	1020.4	1095.1
117.5°	287.7	330.6	433.9	542.0	653.2	707.3	758.1	856.7	947.3	1028.3	1101.4
120°	309.9	349.7	451.4	554.7	662.8	715.2	766.1	863.0	953.6	1033.1	1104.6
122.5°	332.2	368.7	465.7	567.4	670.7	723.2	772.4	867.8	956.8	1034.7	1104.6
125°	352.8	384.6	478.4	576.9	675.5	726.3	774.0	867.8	955.2	1031.5	1101.4
127.5°	371.9	402.1	487.9	586.5	678.7	727.9	774.0	864.6	952.0	1026.7	1095.1
130°	391.0	418.0	497.5	591.2	681.8	726.3	770.8	858.3	944.1	1018.8	1084.0
132.5°	410.1	435.5	505.4	596.0	683.4	726.3	767.7	851.9	934.6	1007.7	1069.6
135°	427.5	448.2	513.4	599.2	681.8	723.2	761.3	840.8	920.2	991.8	1052.2
137.5°	443.4	460.9	519.7	600.8	680.3	718.4	756.5	828.1	902.8	972.7	1031.5
140°	457.7	473.6	522.9	600.8	673.9	712.0	747.0	815.3	883.7	950.4	1007.7
142.5°	470.5	484.8	527.7	597.6	667.5	704.1	737.5	802.6	864.6	928.2	983.8
145°	483.2	494.3	530.9	596.0	659.6	693.0	724.8	786.7	847.1	904.4	956.8
147.5°	492.7	503.8	534.0	589.7	650.1	680.3	710.4	769.3	824.9	878.9	926.6
150°	502.2	511.8	535.6	583.3	638.9	665.9	693.0	748.6	802.6	851.9	896.4
152.5°	511.8	518.1	540.4	576.9	626.2	651.6	678.7	727.9	777.2	823.3	866.2
155°	518.1	522.9	542.0	570.6	613.5	635.7	658.0	704.1	748.6	791.5	831.2
157.5°	524.5	529.3	543.6	565.8	599.2	619.9	638.9	678.7	720.0	758.1	794.7
160°	529.3	532.4	543.6	562.6	586.5	600.8	618.3	654.8	689.8	723.2	755.0
162.5°	534.0	535.6	543.6	557.9	575.4	584.9	597.6	626.2	658.0	686.6	715.2
165°	537.2	538.8	543.6	554.7	565.8	573.8	580.1	600.8	624.6	650.1	673.9
167.5°	540.4	540.4	543.6	551.5	557.9	562.6	567.4	578.5	594.4	613.5	631.0
170°	542.0	542.0	543.6	548.3	553.1	554.7	557.9	564.2	572.2	581.7	592.8
172.5°	542.0	542.0	542.0	545.2	546.7	546.7	546.7	549.9	554.7	561.0	565.8
175°	542.0	540.4	540.4	542.0	540.4	540.4	540.4	540.4	542.0	545.2	546.7
177.5°	542.0	540.4	538.8	538.8	537.2	537.2	535.6	535.6	535.6	535.6	535.6
180°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4



TEST NUMBER: P395761

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3	351.3
2.5°	352.8	352.8	351.3	349.7	349.7	349.7	348.1	346.5	344.9	344.9
5°	352.8	352.8	351.3	351.3	351.3	351.3	349.7	349.7	348.1	348.1
7.5°	354.4	352.8	352.8	352.8	352.8	352.8	352.8	352.8	351.3	351.3
10°	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4	354.4
12.5°	356.0	356.0	356.0	356.0	357.6	357.6	357.6	357.6	357.6	357.6
15°	356.0	357.6	359.2	359.2	359.2	360.8	360.8	360.8	360.8	360.8
17.5°	357.6	359.2	360.8	360.8	362.4	362.4	364.0	364.0	364.0	364.0
20°	357.6	359.2	360.8	362.4	364.0	364.0	365.6	367.1	367.1	365.6
22.5°	356.0	359.2	360.8	362.4	364.0	365.6	367.1	368.7	368.7	368.7
25°	354.4	357.6	360.8	364.0	364.0	365.6	368.7	368.7	368.7	368.7
27.5°	352.8	356.0	359.2	362.4	364.0	365.6	367.1	368.7	368.7	368.7
30°	349.7	354.4	357.6	360.8	362.4	364.0	365.6	367.1	367.1	367.1
32.5°	344.9	349.7	352.8	357.6	359.2	360.8	362.4	364.0	364.0	364.0
35°	340.1	344.9	348.1	352.8	354.4	356.0	359.2	359.2	360.8	360.8
37.5°	332.2	338.5	341.7	346.5	348.1	349.7	352.8	354.4	354.4	354.4
40°	324.2	330.6	333.8	338.5	340.1	341.7	344.9	346.5	348.1	348.1
42.5°	314.7	321.1	324.2	329.0	330.6	332.2	335.4	336.9	338.5	338.5
45°	305.2	309.9	313.1	317.9	321.1	321.1	324.2	325.8	327.4	327.4
47.5°	292.4	297.2	300.4	305.2	308.3	309.9	311.5	313.1	314.7	314.7
50°	278.1	282.9	287.7	290.9	294.0	294.0	297.2	298.8	300.4	300.4
52.5°	263.8	267.0	271.8	276.6	278.1	279.7	281.3	282.9	284.5	284.5
55°	247.9	251.1	255.9	259.1	260.7	262.2	263.8	265.4	267.0	267.0
57.5°	230.5	233.6	238.4	241.6	243.2	244.8	246.4	247.9	249.5	249.5
60°	211.4	214.6	219.3	222.5	224.1	224.1	227.3	228.9	228.9	228.9
62.5°	192.3	195.5	198.7	201.9	203.4	205.0	206.6	208.2	208.2	208.2
65°	173.2	176.4	179.6	181.2	182.8	182.8	184.4	186.0	187.5	187.5
67.5°	152.6	155.8	158.9	160.5	162.1	162.1	163.7	165.3	165.3	165.3
70°	131.9	133.5	136.7	138.3	139.9	139.9	143.0	143.0	143.0	143.0
72.5°	111.3	112.8	116.0	117.6	119.2	119.2	120.8	122.4	122.4	122.4
75°	92.2	93.8	95.4	98.5	98.5	98.5	100.1	101.7	101.7	101.7
77.5°	73.1	74.7	76.3	77.9	79.5	79.5	81.1	82.6	82.6	82.6
80°	55.6	57.2	58.8	60.4	60.4	62.0	62.0	63.6	63.6	63.6
82.5°	39.7	41.3	42.9	44.5	46.1	46.1	47.7	49.3	49.3	47.7
85°	27.0	30.2	31.8	33.4	33.4	33.4	35.0	36.6	36.6	35.0
87.5°	19.1	19.1	20.7	22.3	22.3	23.8	23.8	25.4	25.4	25.4
90°	11.1	11.1	12.7	12.7	14.3	14.3	14.3	15.9	15.9	15.9
92.5°	27.0	27.0	28.6	28.6	28.6	28.6	30.2	30.2	30.2	30.2
95°	289.3	130.3	109.7	66.8	63.6	55.6	54.0	55.6	55.6	54.0
97.5°	971.1	1039.4	1082.4	1103.0	1077.6	1050.6	1020.4	1015.6	974.3	882.1
100°	1047.4	1101.4	1153.9	1190.4	1204.7	1217.5	1246.1	1263.6	1271.5	1279.4
102.5°	1085.5	1142.8	1188.8	1234.9	1254.0	1271.5	1296.9	1317.6	1325.5	1331.9
105°	1118.9	1177.7	1228.6	1269.9	1287.4	1303.3	1328.7	1347.8	1362.1	1363.7
107.5°	1126.9	1188.8	1246.1	1296.9	1317.6	1335.1	1365.3	1379.6	1392.3	1392.3
110°	1141.2	1200.0	1252.4	1298.5	1319.2	1339.8	1371.6	1393.9	1406.6	1409.8





TEST NUMBER: P395761

CATALOG NUMBER: I3-UL-60L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1152.3	1212.7	1262.0	1308.1	1325.5	1344.6	1374.8	1395.5	1406.6	1411.4
115°	1161.8	1220.6	1269.9	1312.8	1331.9	1351.0	1381.2	1398.6	1411.4	1416.1
117.5°	1168.2	1225.4	1274.7	1314.4	1335.1	1351.0	1379.6	1398.6	1411.4	1413.0
120°	1169.8	1227.0	1274.7	1314.4	1331.9	1349.4	1378.0	1397.1	1409.8	1409.8
122.5°	1169.8	1225.4	1273.1	1311.2	1327.1	1343.0	1370.0	1392.3	1403.4	1403.4
125°	1163.4	1219.0	1265.1	1303.3	1319.2	1333.5	1362.1	1382.8	1393.9	1395.5
127.5°	1153.9	1207.9	1254.0	1292.2	1308.1	1320.8	1351.0	1370.0	1381.2	1382.8
130°	1141.2	1195.2	1239.7	1276.3	1292.2	1306.5	1331.9	1352.6	1365.3	1368.4
132.5°	1126.9	1177.7	1222.2	1257.2	1273.1	1285.8	1311.2	1331.9	1343.0	1347.8
135°	1109.4	1157.1	1200.0	1234.9	1250.8	1263.6	1287.4	1308.1	1319.2	1323.9
137.5°	1087.1	1133.2	1174.5	1209.5	1223.8	1236.5	1260.4	1279.4	1289.0	1295.3
140°	1061.7	1104.6	1147.5	1179.3	1193.6	1206.3	1227.0	1247.7	1257.2	1262.0
142.5°	1034.7	1077.6	1115.7	1147.5	1160.2	1173.0	1193.6	1212.7	1222.2	1223.8
145°	1006.1	1047.4	1082.4	1112.6	1123.7	1136.4	1155.5	1174.5	1184.1	1185.7
147.5°	974.3	1012.4	1045.8	1074.4	1087.1	1096.7	1114.1	1131.6	1141.2	1142.8
150°	937.7	972.7	1002.9	1031.5	1042.6	1052.2	1071.2	1087.1	1096.7	1098.3
152.5°	902.8	936.1	961.6	987.0	998.1	1007.7	1023.6	1039.4	1049.0	1050.6
155°	866.2	896.4	921.8	942.5	952.0	961.6	974.3	988.6	996.5	998.1
157.5°	828.1	856.7	878.9	898.0	907.5	915.5	926.6	939.3	944.1	947.3
160°	786.7	810.6	829.7	848.7	856.7	864.6	875.7	885.3	891.6	893.2
162.5°	742.2	762.9	778.8	796.3	801.0	807.4	818.5	828.1	832.8	834.4
165°	696.1	715.2	729.5	743.8	747.0	751.8	759.7	769.3	772.4	775.6
167.5°	650.1	665.9	675.5	688.2	693.0	696.1	704.1	710.4	713.6	715.2
170°	605.6	616.7	624.6	634.2	635.7	640.5	645.3	651.6	653.2	653.2
172.5°	570.6	575.4	580.1	583.3	584.9	586.5	589.7	591.2	591.2	591.2
175°	548.3	551.5	551.5	553.1	553.1	553.1	553.1	553.1	553.1	553.1
177.5°	535.6	535.6	535.6	534.0	534.0	534.0	534.0	532.4	532.4	532.4
180°	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4	532.4

(END OF REPORT)