

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: P395734

Luminaire Tested: **I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P395734  
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 (4000K)  
Description: CORELITE I3, OPEN TOP  
5000 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5308.8 lumens  
Efficiency: N/A  
Efficacy: 146.2 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

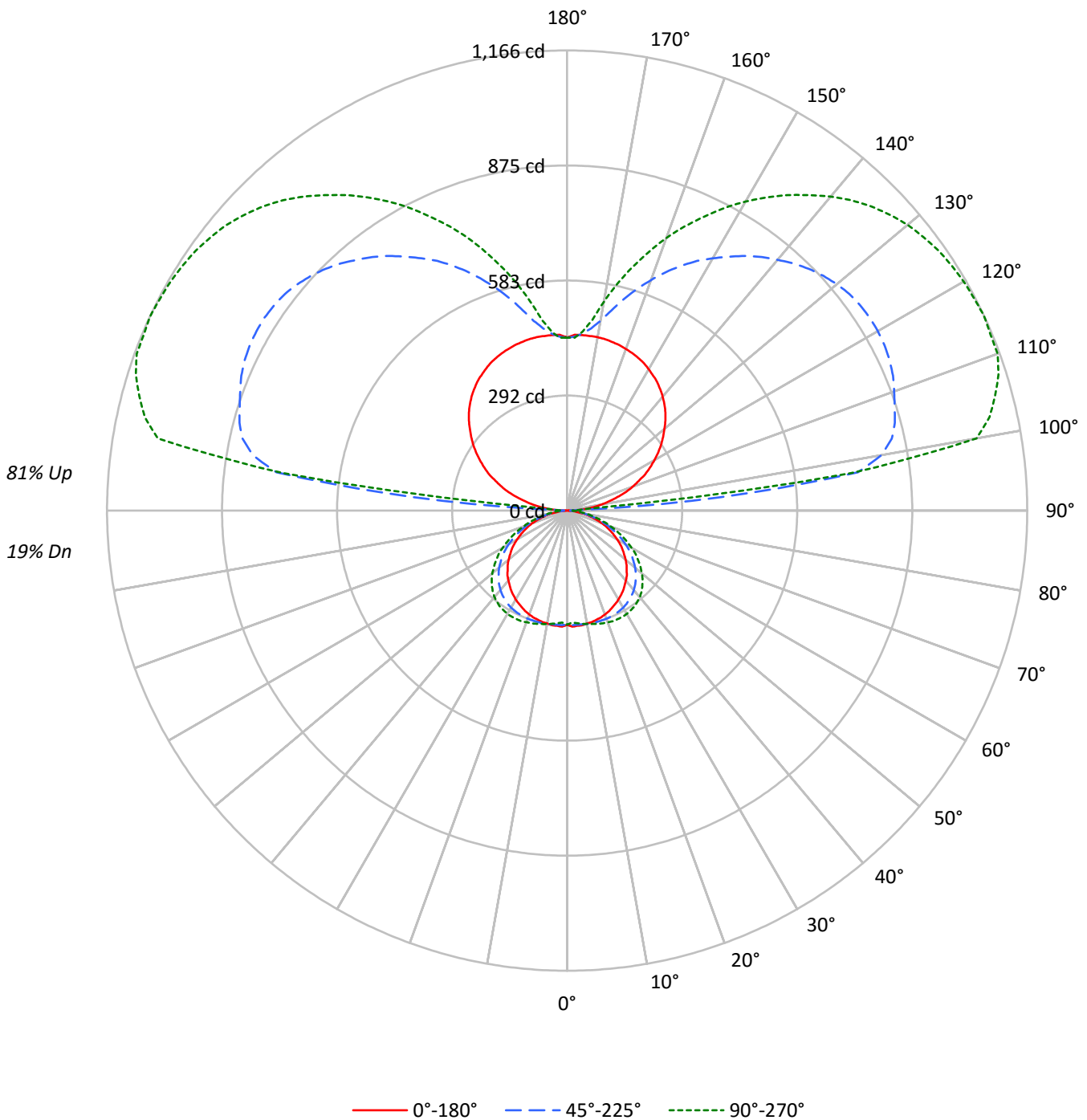
Input Watts (W): 36.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P395734

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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°	1589	1589	1589
5°	1611	1566	1536
10°	1609	1556	1538
15°	1612	1550	1551
20°	1613	1556	1570
25°	1610	1560	1593
30°	1613	1562	1608
35°	1611	1555	1616
40°	1604	1543	1606
45°	1590	1511	1571
50°	1576	1461	1513
55°	1548	1391	1427
60°	1500	1290	1313
65°	1435	1149	1171
70°	1355	997	988
75°	1175	781	792
80°	933	562	573
85°	556	326	378



TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.7	0.5
10°-20°	82.5	1.6
20°-30°	132.7	2.5
30°-40°	170.8	3.2
40°-50°	187.6	3.5
50°-60°	176.3	3.3
60°-70°	137.0	2.6
70°-80°	78.6	1.5
80°-90°	25.2	0.5
90°-100°	339.4	6.4
100°-110°	806.5	15.2
110°-120°	810.1	15.3
120°-130°	742.9	14.0
130°-140°	621.2	11.7
140°-150°	466.3	8.8
150°-160°	303.5	5.7
160°-170°	156.3	2.9
170°-180°	44.2	0.8
0°-30°	242.9	4.6
0°-40°	413.7	7.8
0°-60°	777.6	14.6
0°-90°	1018.3	19.2
90°-120°	1955.9	36.8
90°-150°	3786.4	71.3
90°-180°	4290.0	80.8
0°-180°	5308.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	293	290	290	289	286	28
15°	286	285	292	296	297	81
25°	271	273	289	300	304	125
35°	247	254	275	292	297	155
45°	213	224	246	264	270	165
55°	171	181	200	215	220	153
65°	120	127	139	150	154	119
75°	64	67	73	81	84	68
85°	13	16	21	28	29	15
90°	1	4	8	12	13	4
95°	46	379	390	52	44	46
105°	132	509	860	1060	1123	140
115°	218	573	902	1096	1166	215
125°	290	598	907	1086	1149	259
135°	352	595	866	1030	1090	271
145°	398	570	788	925	976	249
155°	426	523	684	784	822	197
165°	442	472	555	615	638	125
175°	446	445	450	455	455	43
180°	438	438	438	438	438	



TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1
2.5°	294.4	293.1	291.8	291.8	290.5	290.5	290.5	289.1	289.1	289.1	290.5
5°	293.1	293.1	291.8	290.5	290.5	290.5	289.1	289.1	289.1	289.1	290.5
7.5°	293.1	291.8	290.5	290.5	289.1	289.1	289.1	289.1	289.1	289.1	290.5
10°	290.5	290.5	289.1	289.1	287.8	289.1	289.1	289.1	289.1	289.1	291.8
12.5°	289.1	289.1	287.8	286.5	286.5	286.5	287.8	287.8	287.8	289.1	291.8
15°	286.5	286.5	285.2	285.2	285.2	285.2	286.5	286.5	287.8	289.1	291.8
17.5°	283.9	283.9	282.6	282.6	282.6	283.9	283.9	285.2	286.5	289.1	291.8
20°	280.0	280.0	280.0	280.0	280.0	281.3	281.3	282.6	285.2	287.8	291.8
22.5°	276.1	276.1	276.1	276.1	276.1	277.4	278.7	281.3	282.6	286.5	290.5
25°	270.8	270.8	270.8	270.8	272.1	273.4	274.8	277.4	280.0	283.9	289.1
27.5°	265.6	266.9	266.9	266.9	268.2	269.5	270.8	273.4	277.4	282.6	286.5
30°	260.4	260.4	260.4	261.7	263.0	264.3	266.9	269.5	273.4	278.7	283.9
32.5°	253.8	253.8	255.1	255.1	257.7	259.1	261.7	265.6	269.5	274.8	280.0
35°	247.3	247.3	247.3	249.9	251.2	253.8	255.1	259.1	264.3	269.5	274.8
37.5°	239.4	240.7	240.7	242.0	244.7	247.3	248.6	253.8	259.1	264.3	269.5
40°	231.6	232.9	232.9	234.2	238.1	239.4	242.0	247.3	251.2	257.7	263.0
42.5°	223.7	223.7	225.0	226.3	230.3	231.6	234.2	239.4	244.7	249.9	255.1
45°	213.3	214.6	215.9	217.2	221.1	223.7	226.3	230.3	235.5	240.7	246.0
47.5°	204.1	204.1	205.4	208.0	212.0	214.6	215.9	221.1	225.0	230.3	235.5
50°	193.6	194.9	194.9	197.6	201.5	204.1	205.4	210.6	214.6	219.8	225.0
52.5°	181.9	183.2	184.5	187.1	191.0	193.6	194.9	198.9	202.8	208.0	212.0
55°	171.4	172.7	172.7	175.3	179.2	180.6	183.2	185.8	191.0	194.9	200.2
57.5°	159.6	160.9	160.9	163.5	166.2	168.8	170.1	174.0	177.9	181.9	185.8
60°	146.5	147.8	149.2	150.5	153.1	155.7	157.0	159.6	163.5	167.5	171.4
62.5°	133.5	134.8	136.1	137.4	140.0	141.3	142.6	146.5	149.2	153.1	155.7
65°	120.4	121.7	123.0	124.3	125.6	126.9	128.2	130.8	133.5	137.4	138.7
67.5°	107.3	108.6	108.6	109.9	111.2	112.5	113.8	116.4	117.8	121.7	123.0
70°	94.2	94.2	94.2	95.5	95.5	96.8	98.1	100.7	102.1	104.7	107.3
72.5°	78.5	79.8	79.8	79.8	81.1	82.4	83.7	85.0	86.4	87.7	90.3
75°	64.1	65.4	64.1	65.4	66.7	66.7	68.0	69.3	70.7	72.0	73.3
77.5°	51.0	49.7	51.0	51.0	52.3	52.3	52.3	53.6	56.3	56.3	58.9
80°	36.6	36.6	36.6	36.6	37.9	37.9	39.3	39.3	41.9	43.2	44.5
82.5°	23.6	23.6	24.9	24.9	24.9	26.2	26.2	27.5	28.8	30.1	31.4
85°	13.1	13.1	13.1	14.4	14.4	15.7	15.7	17.0	18.3	19.6	20.9
87.5°	3.9	5.2	6.5	6.5	7.9	7.9	9.2	9.2	11.8	13.1	14.4
90°	1.3	1.3	2.6	2.6	2.6	3.9	3.9	5.2	5.2	6.5	7.9
92.5°	22.2	52.3	108.6	162.2	140.0	130.8	78.5	23.6	20.9	22.2	22.2
95°	45.8	86.4	158.3	256.4	332.3	379.4	410.8	471.0	532.5	522.0	389.9
97.5°	66.7	111.2	191.0	281.3	386.0	439.6	480.2	552.1	630.6	696.0	743.1
100°	87.7	133.5	218.5	312.7	409.5	457.9	505.0	603.1	680.3	745.8	808.6
102.5°	109.9	155.7	243.4	341.5	437.0	484.1	529.9	616.2	702.6	781.1	842.6
105°	132.1	179.2	265.6	366.3	461.8	508.9	553.4	635.9	715.7	788.9	859.6
107.5°	155.7	200.2	285.2	386.0	481.5	528.6	573.1	655.5	732.7	805.9	870.1
110°	176.6	219.8	304.8	404.3	499.8	546.9	591.4	673.8	749.7	819.0	881.8



TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	196.3	238.1	323.2	420.0	514.2	561.3	604.5	686.9	762.8	830.8	893.6
115°	218.5	255.1	341.5	434.4	527.3	573.1	616.2	697.4	773.2	840.0	901.5
117.5°	236.8	272.1	357.2	446.1	537.7	582.2	624.1	705.2	779.8	846.5	906.7
120°	255.1	287.8	371.6	456.6	545.6	588.8	630.6	710.4	785.0	850.4	909.3
122.5°	273.4	303.5	383.3	467.1	552.1	595.3	635.9	714.4	787.6	851.7	909.3
125°	290.5	316.6	393.8	474.9	556.0	597.9	637.2	714.4	786.3	849.1	906.7
127.5°	306.2	331.0	401.7	482.8	558.7	599.2	637.2	711.7	783.7	845.2	901.5
130°	321.9	344.1	409.5	486.7	561.3	597.9	634.5	706.5	777.2	838.7	892.3
132.5°	337.6	358.5	416.1	490.6	562.6	597.9	631.9	701.3	769.3	829.5	880.5
135°	351.9	369.0	422.6	493.2	561.3	595.3	626.7	692.1	757.5	816.4	866.1
137.5°	365.0	379.4	427.8	494.6	560.0	591.4	622.8	681.7	743.1	800.7	849.1
140°	376.8	389.9	430.4	494.6	554.7	586.1	614.9	671.2	727.4	782.4	829.5
142.5°	387.3	399.0	434.4	491.9	549.5	579.6	607.1	660.7	711.7	764.1	809.9
145°	397.7	406.9	437.0	490.6	543.0	570.4	596.6	647.6	697.4	744.5	787.6
147.5°	405.6	414.7	439.6	485.4	535.1	560.0	584.8	633.2	679.0	723.5	762.8
150°	413.4	421.3	440.9	480.2	526.0	548.2	570.4	616.2	660.7	701.3	737.9
152.5°	421.3	426.5	444.8	474.9	515.5	536.4	558.7	599.2	639.8	677.7	713.1
155°	426.5	430.4	446.1	469.7	505.0	523.3	541.7	579.6	616.2	651.6	684.3
157.5°	431.8	435.7	447.5	465.8	493.2	510.3	526.0	558.7	592.7	624.1	654.2
160°	435.7	438.3	447.5	463.2	482.8	494.6	508.9	539.0	567.8	595.3	621.5
162.5°	439.6	440.9	447.5	459.2	473.6	481.5	491.9	515.5	541.7	565.2	588.8
165°	442.2	443.5	447.5	456.6	465.8	472.3	477.5	494.6	514.2	535.1	554.7
167.5°	444.8	444.8	447.5	454.0	459.2	463.2	467.1	476.2	489.3	505.0	519.4
170°	446.1	446.1	447.5	451.4	455.3	456.6	459.2	464.5	471.0	478.9	488.0
172.5°	446.1	446.1	446.1	448.8	450.1	450.1	450.1	452.7	456.6	461.8	465.8
175°	446.1	444.8	444.8	446.1	444.8	444.8	444.8	444.8	446.1	448.8	450.1
177.5°	446.1	444.8	443.5	443.5	442.2	442.2	440.9	440.9	440.9	440.9	440.9
180°	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3



TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1	289.1
2.5°	290.5	290.5	289.1	287.8	287.8	287.8	286.5	285.2	283.9	283.9
5°	290.5	290.5	289.1	289.1	289.1	289.1	287.8	287.8	286.5	286.5
7.5°	291.8	290.5	290.5	290.5	290.5	290.5	290.5	290.5	289.1	289.1
10°	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8	291.8
12.5°	293.1	293.1	293.1	293.1	294.4	294.4	294.4	294.4	294.4	294.4
15°	293.1	294.4	295.7	295.7	295.7	297.0	297.0	297.0	297.0	297.0
17.5°	294.4	295.7	297.0	297.0	298.3	298.3	299.6	299.6	299.6	299.6
20°	294.4	295.7	297.0	298.3	299.6	299.6	300.9	302.2	302.2	300.9
22.5°	293.1	295.7	297.0	298.3	299.6	300.9	302.2	303.5	303.5	303.5
25°	291.8	294.4	297.0	299.6	299.6	300.9	303.5	303.5	303.5	303.5
27.5°	290.5	293.1	295.7	298.3	299.6	300.9	302.2	303.5	303.5	303.5
30°	287.8	291.8	294.4	297.0	298.3	299.6	300.9	302.2	302.2	302.2
32.5°	283.9	287.8	290.5	294.4	295.7	297.0	298.3	299.6	299.6	299.6
35°	280.0	283.9	286.5	290.5	291.8	293.1	295.7	295.7	297.0	297.0
37.5°	273.4	278.7	281.3	285.2	286.5	287.8	290.5	291.8	291.8	291.8
40°	266.9	272.1	274.8	278.7	280.0	281.3	283.9	285.2	286.5	286.5
42.5°	259.1	264.3	266.9	270.8	272.1	273.4	276.1	277.4	278.7	278.7
45°	251.2	255.1	257.7	261.7	264.3	264.3	266.9	268.2	269.5	269.5
47.5°	240.7	244.7	247.3	251.2	253.8	255.1	256.4	257.7	259.1	259.1
50°	229.0	232.9	236.8	239.4	242.0	242.0	244.7	246.0	247.3	247.3
52.5°	217.2	219.8	223.7	227.7	229.0	230.3	231.6	232.9	234.2	234.2
55°	204.1	206.7	210.6	213.3	214.6	215.9	217.2	218.5	219.8	219.8
57.5°	189.7	192.3	196.3	198.9	200.2	201.5	202.8	204.1	205.4	205.4
60°	174.0	176.6	180.6	183.2	184.5	184.5	187.1	188.4	188.4	188.4
62.5°	158.3	160.9	163.5	166.2	167.5	168.8	170.1	171.4	171.4	171.4
65°	142.6	145.2	147.8	149.2	150.5	150.5	151.8	153.1	154.4	154.4
67.5°	125.6	128.2	130.8	132.1	133.5	133.5	134.8	136.1	136.1	136.1
70°	108.6	109.9	112.5	113.8	115.1	115.1	117.8	117.8	117.8	117.8
72.5°	91.6	92.9	95.5	96.8	98.1	98.1	99.4	100.7	100.7	100.7
75°	75.9	77.2	78.5	81.1	81.1	81.1	82.4	83.7	83.7	83.7
77.5°	60.2	61.5	62.8	64.1	65.4	65.4	66.7	68.0	68.0	68.0
80°	45.8	47.1	48.4	49.7	49.7	51.0	51.0	52.3	52.3	52.3
82.5°	32.7	34.0	35.3	36.6	37.9	37.9	39.3	40.6	40.6	39.3
85°	22.2	24.9	26.2	27.5	27.5	27.5	28.8	30.1	30.1	28.8
87.5°	15.7	15.7	17.0	18.3	18.3	19.6	19.6	20.9	20.9	20.9
90°	9.2	9.2	10.5	10.5	11.8	11.8	11.8	13.1	13.1	13.1
92.5°	22.2	22.2	23.6	23.6	23.6	23.6	24.9	24.9	24.9	24.9
95°	238.1	107.3	90.3	55.0	52.3	45.8	44.5	45.8	45.8	44.5
97.5°	799.4	855.7	891.0	908.0	887.1	864.8	840.0	836.0	802.0	726.1
100°	862.2	906.7	949.9	980.0	991.7	1002.2	1025.7	1040.1	1046.7	1053.2
102.5°	893.6	940.7	978.6	1016.6	1032.3	1046.7	1067.6	1084.6	1091.2	1096.4
105°	921.1	969.5	1011.4	1045.4	1059.8	1072.8	1093.8	1109.5	1121.3	1122.6
107.5°	927.6	978.6	1025.7	1067.6	1084.6	1099.0	1123.9	1135.6	1146.1	1146.1
110°	939.4	987.8	1031.0	1068.9	1085.9	1102.9	1129.1	1147.4	1157.9	1160.5





TEST NUMBER: P395734

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	948.6	998.3	1038.8	1076.8	1091.2	1106.9	1131.7	1148.7	1157.9	1161.8
115°	956.4	1004.8	1045.4	1080.7	1096.4	1112.1	1137.0	1151.3	1161.8	1165.7
117.5°	961.6	1008.7	1049.3	1082.0	1099.0	1112.1	1135.6	1151.3	1161.8	1163.1
120°	962.9	1010.0	1049.3	1082.0	1096.4	1110.8	1134.3	1150.0	1160.5	1160.5
122.5°	962.9	1008.7	1048.0	1079.4	1092.5	1105.6	1127.8	1146.1	1155.3	1155.3
125°	957.7	1003.5	1041.4	1072.8	1085.9	1097.7	1121.3	1138.3	1147.4	1148.7
127.5°	949.9	994.3	1032.3	1063.7	1076.8	1087.2	1112.1	1127.8	1137.0	1138.3
130°	939.4	983.9	1020.5	1050.6	1063.7	1075.5	1096.4	1113.4	1123.9	1126.5
132.5°	927.6	969.5	1006.1	1034.9	1048.0	1058.5	1079.4	1096.4	1105.6	1109.5
135°	913.2	952.5	987.8	1016.6	1029.7	1040.1	1059.8	1076.8	1085.9	1089.9
137.5°	894.9	932.9	966.9	995.7	1007.4	1017.9	1037.5	1053.2	1061.1	1066.3
140°	874.0	909.3	944.6	970.8	982.6	993.0	1010.0	1027.1	1034.9	1038.8
142.5°	851.7	887.1	918.5	944.6	955.1	965.6	982.6	998.3	1006.1	1007.4
145°	828.2	862.2	891.0	915.8	925.0	935.5	951.2	966.9	974.7	976.0
147.5°	802.0	833.4	860.9	884.4	894.9	902.8	917.2	931.5	939.4	940.7
150°	771.9	800.7	825.6	849.1	858.3	866.1	881.8	894.9	902.8	904.1
152.5°	743.1	770.6	791.6	812.5	821.6	829.5	842.6	855.7	863.5	864.8
155°	713.1	737.9	758.8	775.9	783.7	791.6	802.0	813.8	820.3	821.6
157.5°	681.7	705.2	723.5	739.2	747.1	753.6	762.8	773.2	777.2	779.8
160°	647.6	667.3	683.0	698.7	705.2	711.7	720.9	728.8	734.0	735.3
162.5°	611.0	628.0	641.1	655.5	659.4	664.6	673.8	681.7	685.6	686.9
165°	573.1	588.8	600.5	612.3	614.9	618.8	625.4	633.2	635.9	638.5
167.5°	535.1	548.2	556.0	566.5	570.4	573.1	579.6	584.8	587.4	588.8
170°	498.5	507.6	514.2	522.0	523.3	527.3	531.2	536.4	537.7	537.7
172.5°	469.7	473.6	477.5	480.2	481.5	482.8	485.4	486.7	486.7	486.7
175°	451.4	454.0	454.0	455.3	455.3	455.3	455.3	455.3	455.3	455.3
177.5°	440.9	440.9	440.9	439.6	439.6	439.6	439.6	438.3	438.3	438.3
180°	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3	438.3

(END OF REPORT)