

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: P395733

Luminaire Tested: **I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395733
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 (3500K)
Description: CORELITE I3, OPEN TOP
5000 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: 5041.6 lumens
Efficiency: N/A
Efficacy: 142.0 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

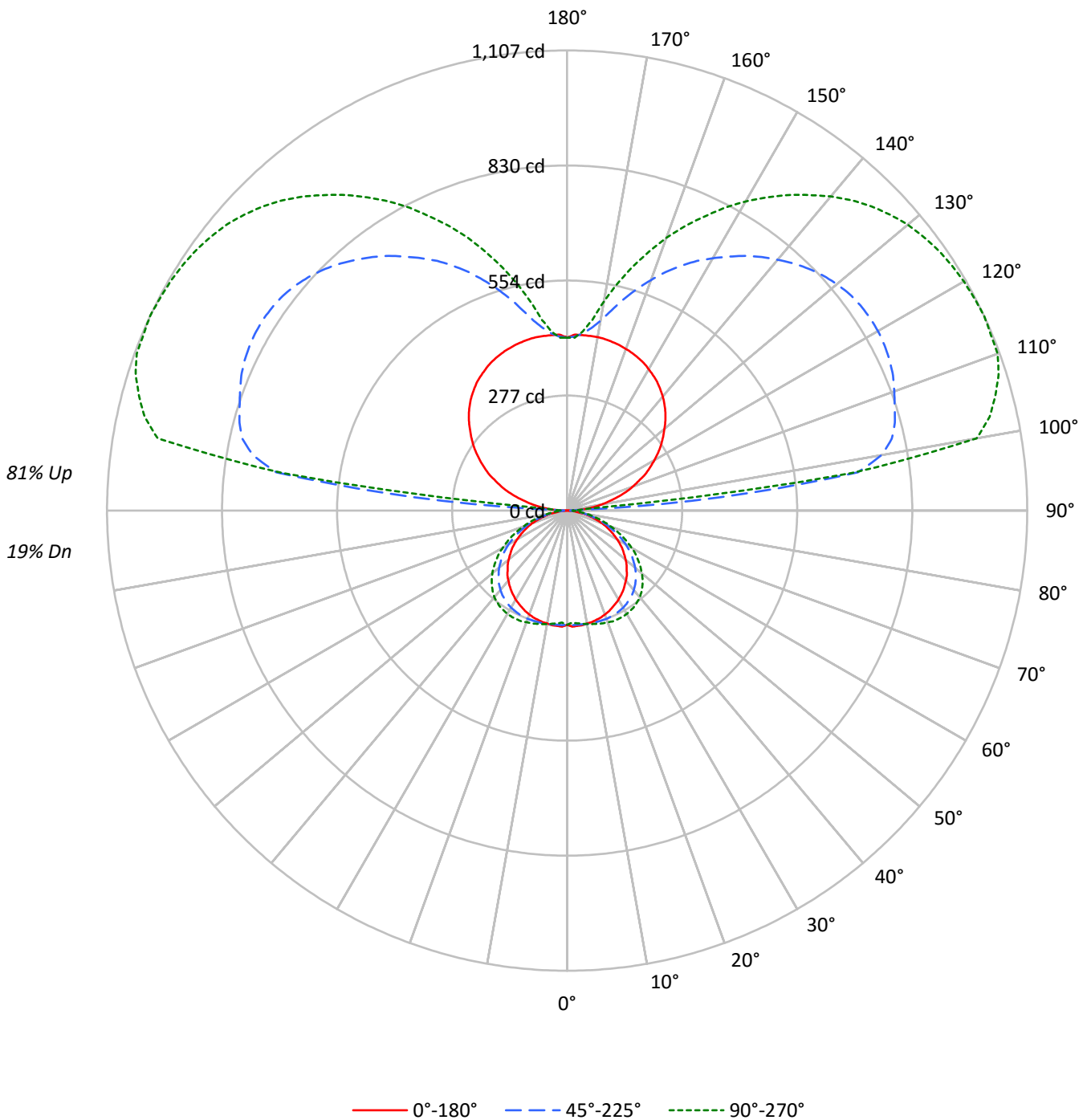
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395733

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

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°	1509	1509	1509
5°	1530	1487	1459
10°	1528	1477	1461
15°	1531	1472	1473
20°	1532	1478	1491
25°	1529	1482	1513
30°	1532	1483	1528
35°	1530	1476	1534
40°	1523	1465	1526
45°	1510	1435	1492
50°	1497	1388	1437
55°	1471	1320	1355
60°	1425	1225	1247
65°	1362	1091	1112
70°	1288	946	938
75°	1116	742	752
80°	887	533	544
85°	526	311	358



TEST NUMBER: P395733

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.5
10°-20°	78.3	1.6
20°-30°	126.0	2.5
30°-40°	162.2	3.2
40°-50°	178.2	3.5
50°-60°	167.4	3.3
60°-70°	130.1	2.6
70°-80°	74.6	1.5
80°-90°	23.9	0.5
90°-100°	322.3	6.4
100°-110°	765.9	15.2
110°-120°	769.3	15.3
120°-130°	705.5	14.0
130°-140°	590.0	11.7
140°-150°	442.8	8.8
150°-160°	288.3	5.7
160°-170°	148.4	2.9
170°-180°	42.0	0.8
0°-30°	230.7	4.6
0°-40°	392.9	7.8
0°-60°	738.5	14.6
0°-90°	967.1	19.2
90°-120°	1857.5	36.8
90°-150°	3595.8	71.3
90°-180°	4075.0	80.8
0°-180°	5041.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	278	276	276	275	272	27
15°	272	271	277	281	282	77
25°	257	260	275	284	288	119
35°	235	241	261	277	282	147
45°	202	212	234	251	256	157
55°	163	172	190	204	209	145
65°	114	120	132	143	147	113
75°	61	63	70	77	80	65
85°	12	15	20	26	27	15
90°	1	4	8	11	12	4
95°	44	360	370	50	42	43
105°	126	483	816	1006	1066	133
115°	208	544	856	1041	1107	204
125°	276	568	861	1031	1091	246
135°	334	565	822	978	1035	258
145°	378	542	748	878	927	236
155°	405	497	650	744	780	187
165°	420	448	527	584	606	119
175°	424	422	427	432	432	40
180°	416	416	416	416	416	



TEST NUMBER: P395733

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6
2.5°	279.6	278.3	277.1	277.1	275.8	275.8	275.8	274.6	274.6	274.6	275.8
5°	278.3	278.3	277.1	275.8	275.8	275.8	274.6	274.6	274.6	274.6	275.8
7.5°	278.3	277.1	275.8	275.8	274.6	274.6	274.6	274.6	274.6	274.6	275.8
10°	275.8	275.8	274.6	274.6	273.3	274.6	274.6	274.6	274.6	274.6	277.1
12.5°	274.6	274.6	273.3	272.1	272.1	272.1	273.3	273.3	273.3	274.6	277.1
15°	272.1	272.1	270.9	270.9	270.9	270.9	272.1	272.1	273.3	274.6	277.1
17.5°	269.6	269.6	268.4	268.4	268.4	269.6	269.6	270.9	272.1	274.6	277.1
20°	265.9	265.9	265.9	265.9	265.9	267.1	267.1	268.4	270.9	273.3	277.1
22.5°	262.2	262.2	262.2	262.2	262.2	263.4	264.7	267.1	268.4	272.1	275.8
25°	257.2	257.2	257.2	257.2	258.4	259.7	260.9	263.4	265.9	269.6	274.6
27.5°	252.2	253.5	253.5	253.5	254.7	256.0	257.2	259.7	263.4	268.4	272.1
30°	247.3	247.3	247.3	248.5	249.7	251.0	253.5	256.0	259.7	264.7	269.6
32.5°	241.0	241.0	242.3	242.3	244.8	246.0	248.5	252.2	256.0	260.9	265.9
35°	234.8	234.8	234.8	237.3	238.6	241.0	242.3	246.0	251.0	256.0	260.9
37.5°	227.4	228.6	228.6	229.9	232.3	234.8	236.1	241.0	246.0	251.0	256.0
40°	219.9	221.2	221.2	222.4	226.1	227.4	229.9	234.8	238.6	244.8	249.7
42.5°	212.5	212.5	213.7	215.0	218.7	219.9	222.4	227.4	232.3	237.3	242.3
45°	202.5	203.8	205.0	206.3	210.0	212.5	215.0	218.7	223.6	228.6	233.6
47.5°	193.8	193.8	195.1	197.6	201.3	203.8	205.0	210.0	213.7	218.7	223.6
50°	183.9	185.1	185.1	187.6	191.3	193.8	195.1	200.0	203.8	208.7	213.7
52.5°	172.7	173.9	175.2	177.7	181.4	183.9	185.1	188.9	192.6	197.6	201.3
55°	162.8	164.0	164.0	166.5	170.2	171.5	173.9	176.4	181.4	185.1	190.1
57.5°	151.6	152.8	152.8	155.3	157.8	160.3	161.5	165.3	169.0	172.7	176.4
60°	139.2	140.4	141.6	142.9	145.4	147.9	149.1	151.6	155.3	159.0	162.8
62.5°	126.7	128.0	129.2	130.5	132.9	134.2	135.4	139.2	141.6	145.4	147.9
65°	114.3	115.6	116.8	118.0	119.3	120.5	121.8	124.2	126.7	130.5	131.7
67.5°	101.9	103.1	103.1	104.4	105.6	106.9	108.1	110.6	111.8	115.6	116.8
70°	89.5	89.5	89.5	90.7	90.7	91.9	93.2	95.7	96.9	99.4	101.9
72.5°	74.5	75.8	75.8	75.8	77.0	78.3	79.5	80.8	82.0	83.2	85.7
75°	60.9	62.1	60.9	62.1	63.4	63.4	64.6	65.9	67.1	68.3	69.6
77.5°	48.5	47.2	48.5	48.5	49.7	49.7	49.7	50.9	53.4	53.4	55.9
80°	34.8	34.8	34.8	34.8	36.0	36.0	37.3	37.3	39.8	41.0	42.2
82.5°	22.4	22.4	23.6	23.6	23.6	24.8	24.8	26.1	27.3	28.6	29.8
85°	12.4	12.4	12.4	13.7	13.7	14.9	14.9	16.2	17.4	18.6	19.9
87.5°	3.7	5.0	6.2	6.2	7.5	7.5	8.7	8.7	11.2	12.4	13.7
90°	1.2	1.2	2.5	2.5	2.5	3.7	3.7	5.0	5.0	6.2	7.5
92.5°	21.1	49.7	103.1	154.1	132.9	124.2	74.5	22.4	19.9	21.1	21.1
95°	43.5	82.0	150.3	243.5	315.6	360.3	390.1	447.3	505.7	495.8	370.3
97.5°	63.4	105.6	181.4	267.1	366.5	417.5	456.0	524.3	598.9	661.0	705.7
100°	83.2	126.7	207.5	297.0	388.9	434.9	479.6	572.8	646.1	708.2	767.9
102.5°	104.4	147.9	231.1	324.3	415.0	459.7	503.2	585.2	667.2	741.8	800.2
105°	125.5	170.2	252.2	347.9	438.6	483.3	525.6	603.9	679.6	749.2	816.3
107.5°	147.9	190.1	270.9	366.5	457.2	502.0	544.2	622.5	695.8	765.4	826.3
110°	167.7	208.7	289.5	383.9	474.6	519.4	561.6	639.9	712.0	777.8	837.4



TEST NUMBER: P395733

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	186.4	226.1	306.9	398.8	488.3	533.0	574.0	652.3	724.4	789.0	848.6
115°	207.5	242.3	324.3	412.5	500.7	544.2	585.2	662.3	734.3	797.7	856.1
117.5°	224.9	258.4	339.2	423.7	510.7	552.9	592.7	669.7	740.5	803.9	861.1
120°	242.3	273.3	352.9	433.6	518.1	559.1	598.9	674.7	745.5	807.6	863.5
122.5°	259.7	288.3	364.1	443.6	524.3	565.3	603.9	678.4	748.0	808.9	863.5
125°	275.8	300.7	374.0	451.0	528.1	567.8	605.1	678.4	746.7	806.4	861.1
127.5°	290.7	314.4	381.4	458.5	530.5	569.1	605.1	675.9	744.3	802.7	856.1
130°	305.7	326.8	388.9	462.2	533.0	567.8	602.6	670.9	738.0	796.4	847.4
132.5°	320.6	340.4	395.1	465.9	534.3	567.8	600.1	666.0	730.6	787.7	836.2
135°	334.2	350.4	401.3	468.4	533.0	565.3	595.2	657.3	719.4	775.3	822.5
137.5°	346.7	360.3	406.3	469.7	531.8	561.6	591.4	647.3	705.7	760.4	806.4
140°	357.8	370.3	408.8	469.7	526.8	556.6	584.0	637.4	690.8	743.0	787.7
142.5°	367.8	379.0	412.5	467.2	521.8	550.4	576.5	627.5	675.9	725.6	769.1
145°	377.7	386.4	415.0	465.9	515.6	541.7	566.6	615.0	662.3	707.0	748.0
147.5°	385.2	393.9	417.5	461.0	508.2	531.8	555.4	601.4	644.9	687.1	724.4
150°	392.6	400.1	418.7	456.0	499.5	520.6	541.7	585.2	627.5	666.0	700.8
152.5°	400.1	405.1	422.4	451.0	489.5	509.4	530.5	569.1	607.6	643.6	677.2
155°	405.1	408.8	423.7	446.1	479.6	497.0	514.4	550.4	585.2	618.8	649.8
157.5°	410.0	413.8	424.9	442.3	468.4	484.6	499.5	530.5	562.9	592.7	621.2
160°	413.8	416.2	424.9	439.8	458.5	469.7	483.3	511.9	539.2	565.3	590.2
162.5°	417.5	418.7	424.9	436.1	449.8	457.2	467.2	489.5	514.4	536.8	559.1
165°	420.0	421.2	424.9	433.6	442.3	448.5	453.5	469.7	488.3	508.2	526.8
167.5°	422.4	422.4	424.9	431.1	436.1	439.8	443.6	452.3	464.7	479.6	493.3
170°	423.7	423.7	424.9	428.7	432.4	433.6	436.1	441.1	447.3	454.8	463.5
172.5°	423.7	423.7	423.7	426.2	427.4	427.4	427.4	429.9	433.6	438.6	442.3
175°	423.7	422.4	422.4	423.7	422.4	422.4	422.4	422.4	423.7	426.2	427.4
177.5°	423.7	422.4	421.2	421.2	420.0	420.0	418.7	418.7	418.7	418.7	418.7
180°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2



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CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6	274.6
2.5°	275.8	275.8	274.6	273.3	273.3	273.3	272.1	270.9	269.6	269.6
5°	275.8	275.8	274.6	274.6	274.6	274.6	273.3	273.3	272.1	272.1
7.5°	277.1	275.8	275.8	275.8	275.8	275.8	275.8	275.8	274.6	274.6
10°	277.1	277.1	277.1	277.1	277.1	277.1	277.1	277.1	277.1	277.1
12.5°	278.3	278.3	278.3	278.3	279.6	279.6	279.6	279.6	279.6	279.6
15°	278.3	279.6	280.8	280.8	280.8	282.0	282.0	282.0	282.0	282.0
17.5°	279.6	280.8	282.0	282.0	283.3	283.3	284.5	284.5	284.5	284.5
20°	279.6	280.8	282.0	283.3	284.5	284.5	285.8	287.0	287.0	285.8
22.5°	278.3	280.8	282.0	283.3	284.5	285.8	287.0	288.3	288.3	288.3
25°	277.1	279.6	282.0	284.5	284.5	285.8	288.3	288.3	288.3	288.3
27.5°	275.8	278.3	280.8	283.3	284.5	285.8	287.0	288.3	288.3	288.3
30°	273.3	277.1	279.6	282.0	283.3	284.5	285.8	287.0	287.0	287.0
32.5°	269.6	273.3	275.8	279.6	280.8	282.0	283.3	284.5	284.5	284.5
35°	265.9	269.6	272.1	275.8	277.1	278.3	280.8	280.8	282.0	282.0
37.5°	259.7	264.7	267.1	270.9	272.1	273.3	275.8	277.1	277.1	277.1
40°	253.5	258.4	260.9	264.7	265.9	267.1	269.6	270.9	272.1	272.1
42.5°	246.0	251.0	253.5	257.2	258.4	259.7	262.2	263.4	264.7	264.7
45°	238.6	242.3	244.8	248.5	251.0	251.0	253.5	254.7	256.0	256.0
47.5°	228.6	232.3	234.8	238.6	241.0	242.3	243.5	244.8	246.0	246.0
50°	217.4	221.2	224.9	227.4	229.9	229.9	232.3	233.6	234.8	234.8
52.5°	206.3	208.7	212.5	216.2	217.4	218.7	219.9	221.2	222.4	222.4
55°	193.8	196.3	200.0	202.5	203.8	205.0	206.3	207.5	208.7	208.7
57.5°	180.2	182.6	186.4	188.9	190.1	191.3	192.6	193.8	195.1	195.1
60°	165.3	167.7	171.5	173.9	175.2	175.2	177.7	178.9	178.9	178.9
62.5°	150.3	152.8	155.3	157.8	159.0	160.3	161.5	162.8	162.8	162.8
65°	135.4	137.9	140.4	141.6	142.9	142.9	144.1	145.4	146.6	146.6
67.5°	119.3	121.8	124.2	125.5	126.7	126.7	128.0	129.2	129.2	129.2
70°	103.1	104.4	106.9	108.1	109.3	109.3	111.8	111.8	111.8	111.8
72.5°	87.0	88.2	90.7	91.9	93.2	93.2	94.4	95.7	95.7	95.7
75°	72.1	73.3	74.5	77.0	77.0	77.0	78.3	79.5	79.5	79.5
77.5°	57.2	58.4	59.6	60.9	62.1	62.1	63.4	64.6	64.6	64.6
80°	43.5	44.7	46.0	47.2	47.2	48.5	48.5	49.7	49.7	49.7
82.5°	31.1	32.3	33.5	34.8	36.0	36.0	37.3	38.5	38.5	37.3
85°	21.1	23.6	24.8	26.1	26.1	26.1	27.3	28.6	28.6	27.3
87.5°	14.9	14.9	16.2	17.4	17.4	18.6	18.6	19.9	19.9	19.9
90°	8.7	8.7	9.9	9.9	11.2	11.2	11.2	12.4	12.4	12.4
92.5°	21.1	21.1	22.4	22.4	22.4	22.4	23.6	23.6	23.6	23.6
95°	226.1	101.9	85.7	52.2	49.7	43.5	42.2	43.5	43.5	42.2
97.5°	759.2	812.6	846.1	862.3	842.4	821.3	797.7	794.0	761.7	689.6
100°	818.8	861.1	902.1	930.6	941.8	951.8	974.1	987.8	994.0	1000.2
102.5°	848.6	893.4	929.4	965.4	980.3	994.0	1013.9	1030.0	1036.2	1041.2
105°	874.7	920.7	960.5	992.8	1006.4	1018.8	1038.7	1053.6	1064.8	1066.1
107.5°	880.9	929.4	974.1	1013.9	1030.0	1043.7	1067.3	1078.5	1088.4	1088.4
110°	892.1	938.1	979.1	1015.1	1031.3	1047.4	1072.3	1089.7	1099.6	1102.1



TEST NUMBER: P395733

CATALOG NUMBER: I3-UL-50L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	900.8	948.0	986.5	1022.6	1036.2	1051.2	1074.8	1090.9	1099.6	1103.3
115°	908.3	954.2	992.8	1026.3	1041.2	1056.1	1079.7	1093.4	1103.3	1107.1
117.5°	913.2	958.0	996.5	1027.5	1043.7	1056.1	1078.5	1093.4	1103.3	1104.6
120°	914.5	959.2	996.5	1027.5	1041.2	1054.9	1077.2	1092.2	1102.1	1102.1
122.5°	914.5	958.0	995.2	1025.1	1037.5	1049.9	1071.0	1088.4	1097.1	1097.1
125°	909.5	953.0	989.0	1018.8	1031.3	1042.5	1064.8	1081.0	1089.7	1090.9
127.5°	902.1	944.3	980.3	1010.2	1022.6	1032.5	1056.1	1071.0	1079.7	1081.0
130°	892.1	934.4	969.1	997.7	1010.2	1021.3	1041.2	1057.4	1067.3	1069.8
132.5°	880.9	920.7	955.5	982.8	995.2	1005.2	1025.1	1041.2	1049.9	1053.6
135°	867.3	904.5	938.1	965.4	977.8	987.8	1006.4	1022.6	1031.3	1035.0
137.5°	849.9	885.9	918.2	945.5	956.7	966.7	985.3	1000.2	1007.7	1012.6
140°	830.0	863.5	897.1	921.9	933.1	943.1	959.2	975.4	982.8	986.5
142.5°	808.9	842.4	872.2	897.1	907.0	917.0	933.1	948.0	955.5	956.7
145°	786.5	818.8	846.1	869.7	878.4	888.4	903.3	918.2	925.7	926.9
147.5°	761.7	791.5	817.6	839.9	849.9	857.3	871.0	884.7	892.1	893.4
150°	733.1	760.4	784.0	806.4	815.1	822.5	837.4	849.9	857.3	858.6
152.5°	705.7	731.8	751.7	771.6	780.3	787.7	800.2	812.6	820.0	821.3
155°	677.2	700.8	720.6	736.8	744.3	751.7	761.7	772.8	779.0	780.3
157.5°	647.3	669.7	687.1	702.0	709.5	715.7	724.4	734.3	738.0	740.5
160°	615.0	633.7	648.6	663.5	669.7	675.9	684.6	692.1	697.0	698.3
162.5°	580.2	596.4	608.8	622.5	626.2	631.2	639.9	647.3	651.1	652.3
165°	544.2	559.1	570.3	581.5	584.0	587.7	593.9	601.4	603.9	606.3
167.5°	508.2	520.6	528.1	538.0	541.7	544.2	550.4	555.4	557.9	559.1
170°	473.4	482.1	488.3	495.8	497.0	500.7	504.5	509.4	510.7	510.7
172.5°	446.1	449.8	453.5	456.0	457.2	458.5	461.0	462.2	462.2	462.2
175°	428.7	431.1	431.1	432.4	432.4	432.4	432.4	432.4	432.4	432.4
177.5°	418.7	418.7	418.7	417.5	417.5	417.5	417.5	416.2	416.2	416.2
180°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2

(END OF REPORT)