

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: P395475

Luminaire Tested: **I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, CLEAR TOP COVER
8000 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: 7813.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

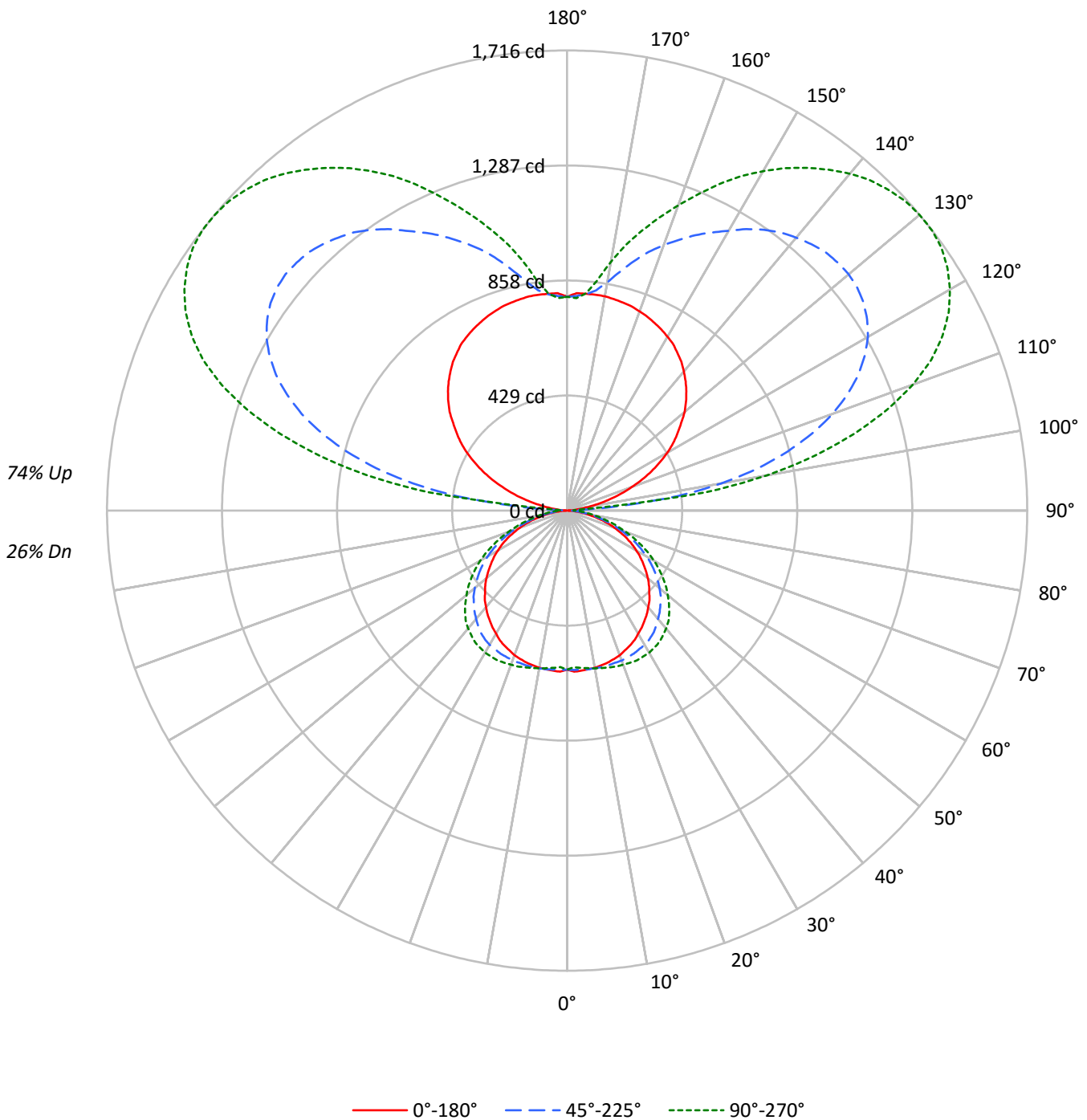
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3259	3259	3259
5°	3294	3208	3156
10°	3296	3183	3148
15°	3300	3172	3163
20°	3306	3173	3191
25°	3300	3177	3233
30°	3282	3181	3256
35°	3274	3164	3260
40°	3262	3096	3218
45°	3229	3021	3138
50°	3200	2922	2998
55°	3134	2775	2825
60°	3056	2580	2608
65°	2932	2316	2312
70°	2722	1972	1958
75°	2349	1569	1572
80°	1823	1115	1151
85°	1069	690	772



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	0.7
10°-20°	168.5	2.2
20°-30°	270.2	3.5
30°-40°	345.6	4.4
40°-50°	376.8	4.8
50°-60°	353.0	4.5
60°-70°	273.9	3.5
70°-80°	157.0	2.0
80°-90°	50.2	0.6
90°-100°	201.5	2.6
100°-110°	783.3	10.0
110°-120°	1066.5	13.6
120°-130°	1107.0	14.2
130°-140°	982.0	12.6
140°-150°	761.9	9.8
150°-160°	508.5	6.5
160°-170°	271.0	3.5
170°-180°	79.3	1.0
0°-30°	495.5	6.3
0°-40°	841.1	10.8
0°-60°	1570.9	20.1
0°-90°	2052.0	26.3
90°-120°	2051.3	26.3
90°-150°	4902.2	62.7
90°-180°	5761.0	73.7
0°-180°	7813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	593	593	593	593	593	
5°	599	593	595	593	589	57
15°	587	584	597	606	606	166
25°	555	559	589	610	616	256
35°	502	513	559	589	599	315
45°	433	452	492	524	538	335
55°	347	366	400	427	435	310
65°	246	256	280	298	305	242
75°	128	135	147	162	166	137
85°	25	29	44	57	59	30
90°	2	6	15	21	25	3
95°	25	143	196	40	38	33
105°	166	502	852	1011	1108	177
115°	347	776	1198	1409	1545	342
125°	502	915	1350	1585	1705	449
135°	629	963	1362	1598	1692	485
145°	717	963	1278	1484	1560	449
155°	772	910	1133	1285	1344	356
165°	803	837	963	1053	1081	227
175°	812	807	809	814	814	77
180°	797	797	797	797	797	



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
2.5°	601.3	599.2	599.2	595.0	595.0	592.9	592.9	592.9	592.9	592.9	595.0
5°	599.2	599.2	597.1	595.0	595.0	592.9	592.9	592.9	592.9	592.9	595.0
7.5°	597.1	597.1	595.0	592.9	592.9	592.9	592.9	592.9	592.9	592.9	597.1
10°	595.0	595.0	592.9	590.8	590.8	590.8	590.8	592.9	592.9	592.9	597.1
12.5°	590.8	588.7	588.7	586.6	586.6	586.6	588.7	588.7	590.8	592.9	597.1
15°	586.6	586.6	584.5	582.4	584.5	584.5	584.5	586.6	588.7	590.8	597.1
17.5°	580.3	580.3	578.2	578.2	578.2	580.3	580.3	582.4	586.6	590.8	595.0
20°	574.0	571.9	571.9	571.9	574.0	574.0	576.1	580.3	582.4	588.7	595.0
22.5°	563.5	565.6	563.5	563.5	565.6	567.7	569.8	574.0	578.2	584.5	590.8
25°	555.0	555.0	555.0	555.0	559.3	559.3	563.5	567.7	574.0	580.3	588.7
27.5°	544.5	544.5	544.5	546.6	548.7	550.8	552.9	559.3	565.6	574.0	582.4
30°	529.8	529.8	529.8	529.8	536.1	538.2	542.4	550.8	557.1	567.7	578.2
32.5°	517.2	517.2	517.2	519.3	523.5	525.6	529.8	540.3	548.7	559.3	569.8
35°	502.5	502.5	504.6	504.6	510.9	513.0	517.2	525.6	534.0	546.6	559.3
37.5°	487.8	487.8	489.9	492.0	496.2	500.4	504.6	513.0	521.4	531.9	544.5
40°	470.9	470.9	473.1	475.2	481.5	485.7	489.9	498.3	506.7	517.2	527.7
42.5°	454.1	454.1	456.2	458.3	464.6	468.8	473.1	483.6	492.0	502.5	510.9
45°	433.1	435.2	437.3	441.5	447.8	452.0	456.2	464.6	475.2	483.6	492.0
47.5°	414.2	416.3	418.4	422.6	428.9	433.1	437.3	445.7	454.1	462.5	473.1
50°	393.2	395.3	397.4	401.6	407.9	412.1	416.3	424.7	433.1	439.4	449.9
52.5°	370.0	372.1	374.2	378.4	386.8	389.0	393.2	401.6	407.9	416.3	424.7
55°	346.9	349.0	351.1	355.3	361.6	365.8	367.9	376.3	382.6	391.1	399.5
57.5°	323.8	325.9	328.0	332.2	336.4	340.6	342.7	349.0	357.4	363.7	372.1
60°	298.5	300.6	302.8	304.9	311.2	313.3	315.4	321.7	328.0	336.4	342.7
62.5°	273.3	273.3	275.4	277.5	283.8	285.9	288.0	292.2	300.6	304.9	311.2
65°	246.0	246.0	248.1	250.2	254.4	256.5	258.6	262.8	269.1	273.3	279.6
67.5°	216.6	216.6	218.7	220.8	225.0	227.1	227.1	233.4	237.6	241.8	246.0
70°	189.2	189.2	191.3	191.3	193.4	195.5	197.6	201.8	203.9	210.2	212.3
72.5°	159.8	159.8	159.8	159.8	164.0	164.0	166.1	170.3	172.4	176.6	180.8
75°	128.2	128.2	130.4	130.4	132.5	134.6	136.7	138.8	143.0	145.1	147.2
77.5°	100.9	98.8	100.9	103.0	105.1	105.1	107.2	109.3	111.4	115.6	117.7
80°	71.5	71.5	71.5	73.6	75.7	75.7	77.8	79.9	82.0	86.2	88.3
82.5°	46.3	46.3	48.4	48.4	50.5	52.6	52.6	54.7	56.8	61.0	63.1
85°	25.2	25.2	25.2	27.3	29.4	29.4	31.5	33.6	37.8	39.9	44.2
87.5°	8.4	8.4	10.5	12.6	14.7	14.7	16.8	18.9	21.0	25.2	27.3
90°	2.1	2.1	2.1	4.2	4.2	6.3	6.3	8.4	10.5	12.6	14.7
92.5°	8.4	14.7	23.1	33.6	31.5	33.6	23.1	14.7	14.7	14.7	16.8
95°	25.2	37.8	61.0	96.7	126.1	143.0	157.7	172.4	201.8	203.9	195.5
97.5°	50.5	69.4	111.4	157.7	210.2	237.6	258.6	302.8	349.0	378.4	414.2
100°	84.1	111.4	166.1	229.2	290.1	325.9	359.5	422.6	479.4	529.8	584.5
102.5°	124.0	155.6	222.9	300.6	376.3	416.3	452.0	525.6	603.4	670.7	729.5
105°	166.1	201.8	281.7	370.0	456.2	502.5	546.6	626.5	708.5	782.1	851.5
107.5°	212.3	250.2	336.4	435.2	531.9	584.5	632.8	719.0	805.2	885.1	958.7
110°	256.5	298.5	389.0	496.2	605.5	658.1	706.4	801.0	891.4	975.5	1053.3



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	302.8	346.9	437.3	555.0	666.5	721.1	771.6	872.5	967.1	1053.3	1131.1
115°	346.9	389.0	483.6	605.5	719.0	775.8	830.5	933.5	1032.3	1118.5	1198.4
117.5°	389.0	428.9	525.6	647.6	765.3	822.1	876.7	983.9	1082.8	1173.2	1251.0
120°	431.0	466.7	571.9	683.3	803.1	859.9	916.7	1023.9	1124.8	1215.2	1295.1
122.5°	468.8	502.5	605.5	714.8	832.6	891.4	946.1	1055.4	1158.4	1248.9	1326.6
125°	502.5	534.0	637.0	740.1	857.8	914.6	971.3	1078.6	1181.6	1269.9	1349.8
127.5°	536.1	567.7	660.2	765.3	874.6	933.5	988.1	1095.4	1196.3	1286.7	1364.5
130°	571.9	595.0	683.3	788.4	891.4	946.1	1002.9	1105.9	1204.7	1293.0	1370.8
132.5°	601.3	622.3	706.4	807.3	904.1	956.6	1007.1	1110.1	1208.9	1293.0	1368.7
135°	628.6	645.5	723.2	824.2	914.6	962.9	1011.3	1108.0	1204.7	1288.8	1362.4
137.5°	653.9	670.7	738.0	836.8	923.0	965.0	1011.3	1101.7	1194.2	1278.3	1347.7
140°	677.0	689.6	750.6	843.1	927.2	967.1	1007.1	1091.2	1177.4	1259.4	1328.7
142.5°	700.1	710.6	761.1	847.3	929.3	967.1	1005.0	1078.6	1158.4	1238.3	1307.7
145°	716.9	727.4	769.5	849.4	927.2	962.9	996.6	1065.9	1137.4	1211.0	1278.3
147.5°	735.9	744.3	777.9	845.2	920.9	954.5	986.0	1049.1	1114.3	1181.6	1244.6
150°	748.5	756.9	782.1	841.0	910.4	941.9	973.4	1032.3	1091.2	1150.0	1204.7
152.5°	761.1	767.4	788.4	834.7	897.7	927.2	956.6	1013.4	1068.0	1120.6	1169.0
155°	771.6	777.9	792.6	830.5	883.0	910.4	937.7	992.4	1042.8	1089.1	1133.2
157.5°	782.1	786.3	796.8	824.2	866.2	891.4	916.7	965.0	1011.3	1057.5	1093.3
160°	790.5	792.6	801.0	822.1	851.5	870.4	893.5	937.7	979.7	1019.7	1053.3
162.5°	798.9	798.9	805.2	817.9	838.9	851.5	868.3	906.2	944.0	979.7	1011.3
165°	803.1	803.1	807.3	815.7	828.4	836.8	847.3	872.5	901.9	933.5	962.9
167.5°	807.3	807.3	809.4	813.6	822.1	826.3	830.5	847.3	866.2	889.3	912.5
170°	811.5	809.4	809.4	813.6	815.7	817.9	820.0	828.4	836.8	851.5	864.1
172.5°	811.5	809.4	809.4	811.5	811.5	811.5	811.5	813.6	815.7	824.2	828.4
175°	811.5	809.4	809.4	809.4	809.4	807.3	807.3	807.3	807.3	807.3	809.4
177.5°	811.5	809.4	807.3	807.3	805.2	805.2	803.1	803.1	801.0	801.0	801.0
180°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
2.5°	595.0	595.0	592.9	592.9	590.8	590.8	588.7	586.6	584.5	584.5
5°	597.1	595.0	592.9	592.9	592.9	590.8	590.8	590.8	588.7	588.7
7.5°	597.1	597.1	597.1	595.0	595.0	595.0	595.0	595.0	592.9	592.9
10°	599.2	599.2	599.2	599.2	599.2	599.2	599.2	597.1	597.1	597.1
12.5°	599.2	599.2	599.2	601.3	601.3	601.3	601.3	601.3	601.3	601.3
15°	601.3	601.3	603.4	603.4	605.5	605.5	607.6	607.6	607.6	605.5
17.5°	599.2	601.3	603.4	605.5	607.6	607.6	609.7	609.7	609.7	609.7
20°	599.2	603.4	605.5	607.6	609.7	609.7	611.8	613.9	613.9	611.8
22.5°	597.1	601.3	603.4	607.6	609.7	609.7	613.9	613.9	613.9	613.9
25°	595.0	599.2	603.4	607.6	609.7	609.7	613.9	613.9	616.0	616.0
27.5°	590.8	595.0	601.3	605.5	607.6	609.7	611.8	613.9	613.9	613.9
30°	584.5	590.8	597.1	601.3	603.4	605.5	607.6	609.7	611.8	611.8
32.5°	576.1	582.4	588.7	595.0	597.1	599.2	603.4	605.5	605.5	605.5
35°	567.7	574.0	580.3	586.6	588.7	590.8	595.0	597.1	599.2	599.2
37.5°	555.0	561.4	567.7	574.0	576.1	580.3	584.5	586.6	586.6	586.6
40°	536.1	546.6	555.0	561.4	563.5	567.7	569.8	574.0	574.0	574.0
42.5°	519.3	527.7	534.0	542.4	544.5	550.8	555.0	557.1	559.3	559.3
45°	500.4	508.8	515.1	521.4	523.5	527.7	531.9	534.0	536.1	538.2
47.5°	481.5	487.8	494.1	500.4	502.5	506.7	510.9	513.0	515.1	515.1
50°	458.3	464.6	470.9	477.3	479.4	483.6	485.7	487.8	489.9	489.9
52.5°	433.1	439.4	445.7	452.0	454.1	456.2	460.4	462.5	464.6	464.6
55°	407.9	414.2	418.4	424.7	426.8	428.9	431.0	435.2	437.3	435.2
57.5°	378.4	384.7	389.0	395.3	397.4	399.5	401.6	403.7	405.8	405.8
60°	346.9	353.2	359.5	363.7	365.8	367.9	370.0	372.1	374.2	374.2
62.5°	315.4	321.7	325.9	332.2	334.3	334.3	336.4	338.5	340.6	340.6
65°	283.8	290.1	292.2	298.5	298.5	300.6	302.8	304.9	304.9	304.9
67.5°	250.2	256.5	258.6	262.8	262.8	264.9	267.0	269.1	269.1	269.1
70°	218.7	220.8	225.0	227.1	229.2	229.2	231.3	233.4	235.5	233.4
72.5°	185.0	187.1	191.3	193.4	193.4	195.5	195.5	197.6	199.7	199.7
75°	151.4	155.6	157.7	159.8	161.9	161.9	164.0	166.1	166.1	166.1
77.5°	119.8	124.0	126.1	128.2	130.4	130.4	132.5	132.5	134.6	132.5
80°	92.5	94.6	96.7	98.8	100.9	100.9	103.0	105.1	105.1	105.1
82.5°	67.3	69.4	73.6	75.7	75.7	75.7	79.9	79.9	82.0	79.9
85°	46.3	48.4	52.6	54.7	56.8	56.8	56.8	58.9	61.0	58.9
87.5°	29.4	33.6	35.7	37.8	37.8	37.8	39.9	42.0	42.0	42.0
90°	16.8	16.8	18.9	21.0	21.0	23.1	23.1	25.2	25.2	25.2
92.5°	16.8	18.9	18.9	18.9	21.0	21.0	21.0	23.1	23.1	23.1
95°	143.0	103.0	58.9	46.3	39.9	39.9	37.8	39.9	37.8	37.8
97.5°	433.1	468.8	485.7	508.8	521.4	519.3	510.9	519.3	513.0	519.3
100°	616.0	649.7	674.9	681.2	693.8	700.1	723.2	740.1	748.5	759.0
102.5°	765.3	805.2	834.7	851.5	864.1	872.5	899.8	925.1	937.7	946.1
105°	901.9	944.0	979.7	996.6	1011.3	1019.7	1049.1	1078.6	1097.5	1108.0
107.5°	1011.3	1059.6	1097.5	1122.7	1137.4	1152.1	1187.9	1217.3	1240.4	1251.0
110°	1110.1	1158.4	1198.4	1227.8	1244.6	1259.4	1299.3	1332.9	1358.2	1370.8



TEST NUMBER: P395475

CATALOG NUMBER: I3-CL-80L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1192.1	1244.6	1284.6	1316.1	1332.9	1354.0	1391.8	1429.7	1454.9	1469.6
115°	1259.4	1314.0	1356.1	1389.7	1408.6	1427.6	1471.7	1509.6	1534.8	1545.3
117.5°	1316.1	1370.8	1414.9	1448.6	1469.6	1490.6	1534.8	1568.4	1595.8	1604.2
120°	1362.4	1417.0	1461.2	1499.0	1520.1	1539.0	1581.0	1616.8	1642.0	1648.3
122.5°	1393.9	1450.7	1496.9	1539.0	1557.9	1576.8	1616.8	1652.5	1675.6	1682.0
125°	1417.0	1475.9	1522.2	1566.3	1585.2	1604.2	1642.0	1677.8	1696.7	1705.1
127.5°	1431.8	1490.6	1541.1	1583.1	1604.2	1621.0	1658.8	1690.4	1709.3	1715.6
130°	1436.0	1496.9	1547.4	1591.6	1610.5	1627.3	1663.0	1694.6	1711.4	1715.6
132.5°	1436.0	1494.8	1547.4	1589.4	1608.4	1625.2	1658.8	1688.3	1705.1	1709.3
135°	1427.6	1484.3	1536.9	1578.9	1597.9	1614.7	1648.3	1673.5	1690.4	1692.5
137.5°	1412.8	1467.5	1518.0	1560.0	1578.9	1595.8	1625.2	1652.5	1667.2	1671.4
140°	1393.9	1444.4	1494.8	1534.8	1553.7	1568.4	1597.9	1621.0	1635.7	1639.9
142.5°	1368.7	1419.2	1465.4	1505.4	1520.1	1536.9	1562.1	1585.2	1597.9	1602.1
145°	1341.4	1389.7	1431.8	1467.5	1484.3	1499.0	1522.2	1543.2	1555.8	1560.0
147.5°	1305.6	1354.0	1393.9	1427.6	1442.3	1457.0	1478.0	1496.9	1509.6	1513.8
150°	1261.5	1305.6	1347.7	1379.2	1393.9	1408.6	1429.7	1446.5	1459.1	1461.2
152.5°	1217.3	1259.4	1295.1	1326.6	1341.4	1356.1	1375.0	1391.8	1406.5	1406.5
155°	1175.3	1211.0	1244.6	1272.0	1284.6	1297.2	1316.1	1330.8	1343.5	1343.5
157.5°	1131.1	1164.8	1192.1	1217.3	1227.8	1238.3	1255.2	1267.8	1278.3	1276.2
160°	1089.1	1114.3	1139.5	1160.5	1171.1	1179.5	1192.1	1202.6	1213.1	1211.0
162.5°	1042.8	1065.9	1087.0	1101.7	1110.1	1116.4	1129.0	1139.5	1145.8	1145.8
165°	990.3	1011.3	1030.2	1044.9	1053.3	1057.5	1068.0	1074.3	1080.7	1080.7
167.5°	935.6	952.4	969.2	981.8	990.3	994.5	1005.0	1009.2	1017.6	1015.5
170°	880.9	893.5	906.2	916.7	920.9	925.1	933.5	937.7	941.9	941.9
172.5°	836.8	841.0	847.3	855.7	855.7	857.8	862.0	864.1	866.2	866.2
175°	811.5	813.6	813.6	813.6	813.6	813.6	815.7	813.6	815.7	813.6
177.5°	801.0	801.0	798.9	798.9	796.8	798.9	796.8	794.7	794.7	792.6
180°	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8	796.8

(END OF REPORT)