

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: P393837

Luminaire Tested: **I3-UL-80L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-UL-80L840-1D-UNV-STD-W-4
Description: CORELITE I3, OPEN TOP
8000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

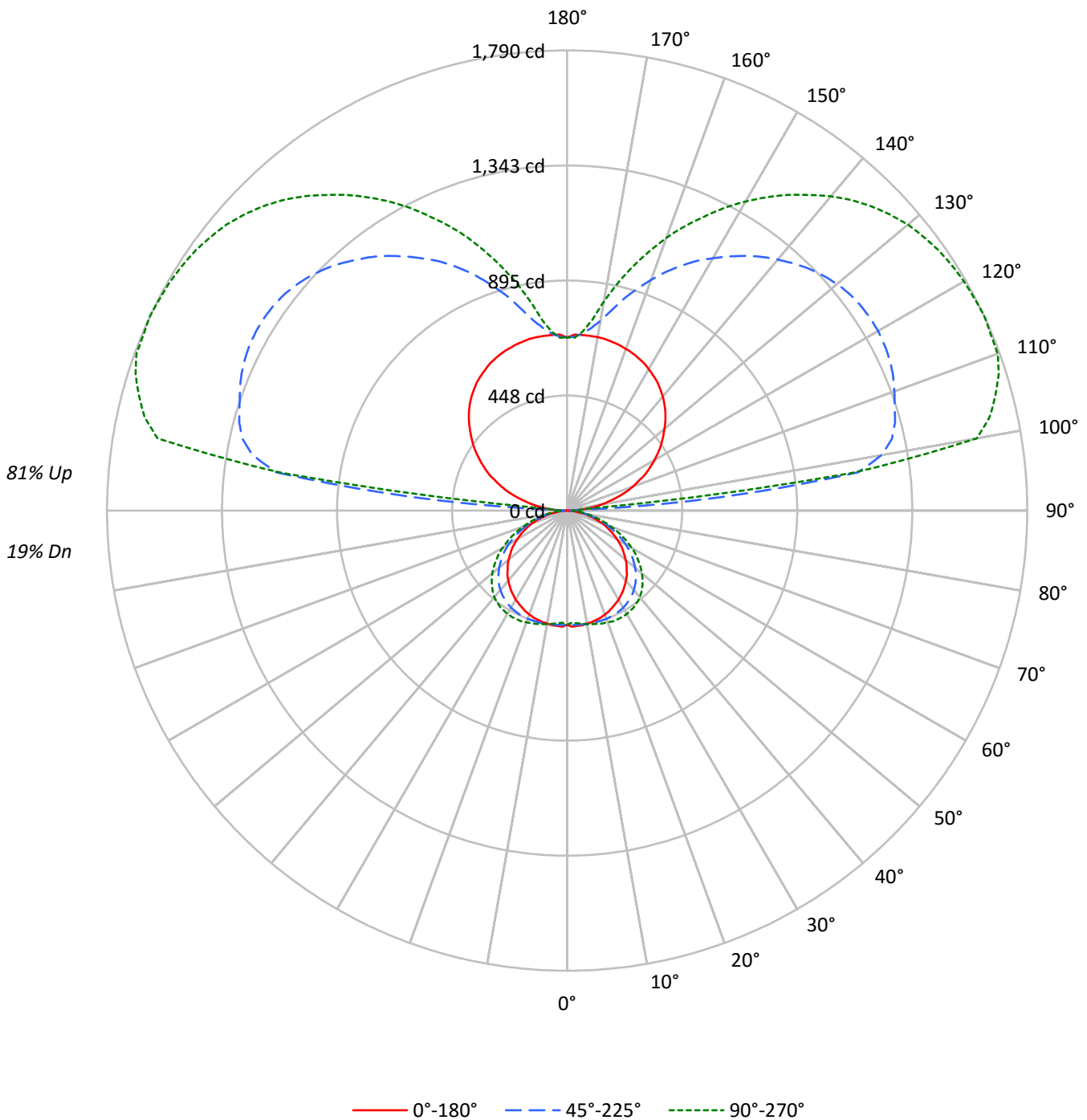
Lumens per Lamp: N/A
Luminaire Lumens: 8154.2 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.54 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 57.2
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



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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	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°	2441	2441	2441
5°	2474	2405	2359
10°	2471	2389	2362
15°	2476	2380	2383
20°	2477	2390	2411
25°	2474	2396	2447
30°	2477	2400	2471
35°	2475	2387	2482
40°	2464	2370	2468
45°	2443	2320	2414
50°	2420	2244	2324
55°	2379	2136	2192
60°	2305	1982	2017
65°	2204	1764	1798
70°	2082	1531	1517
75°	1805	1199	1217
80°	1436	862	880
85°	853	503	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	0.5
10°-20°	126.7	1.6
20°-30°	203.9	2.5
30°-40°	262.3	3.2
40°-50°	288.1	3.5
50°-60°	270.8	3.3
60°-70°	210.4	2.6
70°-80°	120.7	1.5
80°-90°	38.7	0.5
90°-100°	521.3	6.4
100°-110°	1238.7	15.2
110°-120°	1244.3	15.3
120°-130°	1141.1	14.0
130°-140°	954.2	11.7
140°-150°	716.2	8.8
150°-160°	466.2	5.7
160°-170°	240.1	2.9
170°-180°	67.9	0.8
0°-30°	373.1	4.6
0°-40°	635.4	7.8
0°-60°	1194.4	14.6
0°-90°	1564.2	19.2
90°-120°	3004.3	36.8
90°-150°	5815.8	71.3
90°-180°	6590.0	80.8
0°-180°	8154.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	450	446	446	444	440	43
15°	440	438	448	454	456	124
25°	416	420	444	460	466	192
35°	380	390	422	448	456	237
45°	328	344	378	406	414	253
55°	263	277	308	330	338	235
65°	185	195	213	231	237	183
75°	98	102	112	125	129	105
85°	20	24	32	42	44	24
90°	2	6	12	18	20	6
95°	70	583	599	80	68	70
105°	203	782	1320	1628	1724	215
115°	336	880	1385	1684	1790	330
125°	446	918	1393	1668	1764	398
135°	541	914	1330	1582	1674	417
145°	611	876	1210	1421	1499	382
155°	655	804	1051	1204	1262	302
165°	679	726	852	944	981	192
175°	685	683	691	699	699	65
180°	673	673	673	673	673	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1
2.5°	452.2	450.1	448.1	448.1	446.1	446.1	446.1	444.1	444.1	444.1	446.1
5°	450.1	450.1	448.1	446.1	446.1	446.1	444.1	444.1	444.1	444.1	446.1
7.5°	450.1	448.1	446.1	446.1	444.1	444.1	444.1	444.1	444.1	444.1	446.1
10°	446.1	446.1	444.1	444.1	442.1	444.1	444.1	444.1	444.1	444.1	448.1
12.5°	444.1	444.1	442.1	440.1	440.1	440.1	442.1	442.1	442.1	444.1	448.1
15°	440.1	440.1	438.1	438.1	438.1	438.1	440.1	440.1	442.1	444.1	448.1
17.5°	436.1	436.1	434.1	434.1	434.1	436.1	436.1	438.1	440.1	444.1	448.1
20°	430.1	430.1	430.1	430.1	430.1	432.1	432.1	434.1	438.1	442.1	448.1
22.5°	424.0	424.0	424.0	424.0	424.0	426.0	428.0	432.1	434.1	440.1	446.1
25°	416.0	416.0	416.0	416.0	418.0	420.0	422.0	426.0	430.1	436.1	444.1
27.5°	407.9	410.0	410.0	410.0	412.0	414.0	416.0	420.0	426.0	434.1	440.1
30°	399.9	399.9	399.9	401.9	403.9	405.9	410.0	414.0	420.0	428.0	436.1
32.5°	389.9	389.9	391.9	391.9	395.9	397.9	401.9	407.9	414.0	422.0	430.1
35°	379.8	379.8	379.8	383.8	385.8	389.9	391.9	397.9	405.9	414.0	422.0
37.5°	367.8	369.8	369.8	371.8	375.8	379.8	381.8	389.9	397.9	405.9	414.0
40°	355.7	357.7	357.7	359.7	365.7	367.8	371.8	379.8	385.8	395.9	403.9
42.5°	343.6	343.6	345.6	347.7	353.7	355.7	359.7	367.8	375.8	383.8	391.9
45°	327.6	329.6	331.6	333.6	339.6	343.6	347.7	353.7	361.7	369.8	377.8
47.5°	313.5	313.5	315.5	319.5	325.6	329.6	331.6	339.6	345.6	353.7	361.7
50°	297.4	299.4	299.4	303.4	309.5	313.5	315.5	323.5	329.6	337.6	345.6
52.5°	279.3	281.3	283.4	287.4	293.4	297.4	299.4	305.5	311.5	319.5	325.6
55°	263.3	265.3	265.3	269.3	275.3	277.3	281.3	285.4	293.4	299.4	307.5
57.5°	245.2	247.2	247.2	251.2	255.2	259.2	261.2	267.3	273.3	279.3	285.4
60°	225.1	227.1	229.1	231.1	235.1	239.1	241.2	245.2	251.2	257.2	263.3
62.5°	205.0	207.0	209.0	211.0	215.0	217.0	219.0	225.1	229.1	235.1	239.1
65°	184.9	186.9	188.9	190.9	192.9	194.9	196.9	201.0	205.0	211.0	213.0
67.5°	164.8	166.8	166.8	168.8	170.8	172.8	174.8	178.9	180.9	186.9	188.9
70°	144.7	144.7	144.7	146.7	146.7	148.7	150.7	154.7	156.7	160.8	164.8
72.5°	120.6	122.6	122.6	122.6	124.6	126.6	128.6	130.6	132.6	134.6	138.7
75°	98.5	100.5	98.5	100.5	102.5	102.5	104.5	106.5	108.5	110.5	112.5
77.5°	78.4	76.4	78.4	78.4	80.4	80.4	80.4	82.4	86.4	86.4	90.4
80°	56.3	56.3	56.3	56.3	58.3	58.3	60.3	60.3	64.3	66.3	68.3
82.5°	36.2	36.2	38.2	38.2	38.2	40.2	40.2	42.2	44.2	46.2	48.2
85°	20.1	20.1	20.1	22.1	22.1	24.1	24.1	26.1	28.1	30.1	32.2
87.5°	6.0	8.0	10.0	10.0	12.1	12.1	14.1	14.1	18.1	20.1	22.1
90°	2.0	2.0	4.0	4.0	4.0	6.0	6.0	8.0	8.0	10.0	12.1
92.5°	34.2	80.4	166.8	249.2	215.0	201.0	120.6	36.2	32.2	34.2	34.2
95°	70.3	132.6	243.2	393.9	510.4	582.8	631.0	723.5	817.9	801.8	598.9
97.5°	102.5	170.8	293.4	432.1	592.8	675.2	737.5	848.0	968.6	1069.1	1141.4
100°	134.6	205.0	335.6	480.3	629.0	703.4	775.7	926.4	1045.0	1145.5	1241.9
102.5°	168.8	239.1	373.8	524.5	671.2	743.5	813.9	946.5	1079.1	1199.7	1294.2
105°	203.0	275.3	407.9	562.7	709.4	781.7	850.1	976.7	1099.2	1211.8	1320.3
107.5°	239.1	307.5	438.1	592.8	739.5	811.9	880.2	1006.8	1125.4	1237.9	1336.4
110°	271.3	337.6	468.2	621.0	767.7	840.0	908.3	1034.9	1151.5	1258.0	1354.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	301.4	365.7	496.4	645.1	789.8	862.1	928.4	1055.0	1171.6	1276.1	1372.5
115°	335.6	391.9	524.5	667.2	809.9	880.2	946.5	1071.1	1187.7	1290.2	1384.6
117.5°	363.7	418.0	548.6	685.3	825.9	894.3	958.6	1083.2	1197.7	1300.2	1392.6
120°	391.9	442.1	570.7	701.3	838.0	904.3	968.6	1091.2	1205.8	1306.2	1396.7
122.5°	420.0	466.2	588.8	717.4	848.0	914.4	976.7	1097.2	1209.8	1308.2	1396.7
125°	446.1	486.3	604.9	729.5	854.1	918.4	978.7	1097.2	1207.8	1304.2	1392.6
127.5°	470.2	508.4	616.9	741.5	858.1	920.4	978.7	1093.2	1203.7	1298.2	1384.6
130°	494.4	528.5	629.0	747.6	862.1	918.4	974.6	1085.2	1193.7	1288.1	1370.5
132.5°	518.5	550.6	639.0	753.6	864.1	918.4	970.6	1077.1	1181.6	1274.1	1352.5
135°	540.6	566.7	649.1	757.6	862.1	914.4	962.6	1063.1	1163.5	1254.0	1330.3
137.5°	560.7	582.8	657.1	759.6	860.1	908.3	956.6	1047.0	1141.4	1229.9	1304.2
140°	578.8	598.9	661.2	759.6	852.1	900.3	944.5	1030.9	1117.3	1201.7	1274.1
142.5°	594.8	612.9	667.2	755.6	844.0	890.2	932.4	1014.8	1093.2	1173.6	1243.9
145°	610.9	625.0	671.2	753.6	834.0	876.2	916.4	994.7	1071.1	1143.5	1209.8
147.5°	623.0	637.0	675.2	745.6	821.9	860.1	898.3	972.6	1043.0	1111.3	1171.6
150°	635.0	647.1	677.2	737.5	807.9	842.0	876.2	946.5	1014.8	1077.1	1133.4
152.5°	647.1	655.1	683.3	729.5	791.8	823.9	858.1	920.4	982.7	1041.0	1095.2
155°	655.1	661.2	685.3	721.4	775.7	803.8	832.0	890.2	946.5	1000.8	1051.0
157.5°	663.2	669.2	687.3	715.4	757.6	783.7	807.9	858.1	910.3	958.6	1004.8
160°	669.2	673.2	687.3	711.4	741.5	759.6	781.7	827.9	872.2	914.4	954.6
162.5°	675.2	677.2	687.3	705.4	727.5	739.5	755.6	791.8	832.0	868.1	904.3
165°	679.2	681.2	687.3	701.3	715.4	725.5	733.5	759.6	789.8	821.9	852.1
167.5°	683.3	683.3	687.3	697.3	705.4	711.4	717.4	731.5	751.6	775.7	797.8
170°	685.3	685.3	687.3	693.3	699.3	701.3	705.4	713.4	723.5	735.5	749.6
172.5°	685.3	685.3	685.3	689.3	691.3	691.3	691.3	695.3	701.3	709.4	715.4
175°	685.3	683.3	683.3	685.3	683.3	683.3	683.3	683.3	685.3	689.3	691.3
177.5°	685.3	683.3	681.2	681.2	679.2	679.2	677.2	677.2	677.2	677.2	677.2
180°	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1	444.1
2.5°	446.1	446.1	444.1	442.1	442.1	442.1	440.1	438.1	436.1	436.1
5°	446.1	446.1	444.1	444.1	444.1	444.1	442.1	442.1	440.1	440.1
7.5°	448.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1	444.1	444.1
10°	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1	448.1
12.5°	450.1	450.1	450.1	450.1	452.2	452.2	452.2	452.2	452.2	452.2
15°	450.1	452.2	454.2	454.2	454.2	456.2	456.2	456.2	456.2	456.2
17.5°	452.2	454.2	456.2	456.2	458.2	458.2	460.2	460.2	460.2	460.2
20°	452.2	454.2	456.2	458.2	460.2	460.2	462.2	464.2	464.2	462.2
22.5°	450.1	454.2	456.2	458.2	460.2	462.2	464.2	466.2	466.2	466.2
25°	448.1	452.2	456.2	460.2	460.2	462.2	466.2	466.2	466.2	466.2
27.5°	446.1	450.1	454.2	458.2	460.2	462.2	464.2	466.2	466.2	466.2
30°	442.1	448.1	452.2	456.2	458.2	460.2	462.2	464.2	464.2	464.2
32.5°	436.1	442.1	446.1	452.2	454.2	456.2	458.2	460.2	460.2	460.2
35°	430.1	436.1	440.1	446.1	448.1	450.1	454.2	454.2	456.2	456.2
37.5°	420.0	428.0	432.1	438.1	440.1	442.1	446.1	448.1	448.1	448.1
40°	410.0	418.0	422.0	428.0	430.1	432.1	436.1	438.1	440.1	440.1
42.5°	397.9	405.9	410.0	416.0	418.0	420.0	424.0	426.0	428.0	428.0
45°	385.8	391.9	395.9	401.9	405.9	405.9	410.0	412.0	414.0	414.0
47.5°	369.8	375.8	379.8	385.8	389.9	391.9	393.9	395.9	397.9	397.9
50°	351.7	357.7	363.7	367.8	371.8	371.8	375.8	377.8	379.8	379.8
52.5°	333.6	337.6	343.6	349.7	351.7	353.7	355.7	357.7	359.7	359.7
55°	313.5	317.5	323.5	327.6	329.6	331.6	333.6	335.6	337.6	337.6
57.5°	291.4	295.4	301.4	305.5	307.5	309.5	311.5	313.5	315.5	315.5
60°	267.3	271.3	277.3	281.3	283.4	283.4	287.4	289.4	289.4	289.4
62.5°	243.2	247.2	251.2	255.2	257.2	259.2	261.2	263.3	263.3	263.3
65°	219.0	223.1	227.1	229.1	231.1	231.1	233.1	235.1	237.1	237.1
67.5°	192.9	196.9	201.0	203.0	205.0	205.0	207.0	209.0	209.0	209.0
70°	166.8	168.8	172.8	174.8	176.8	176.8	180.9	180.9	180.9	180.9
72.5°	140.7	142.7	146.7	148.7	150.7	150.7	152.7	154.7	154.7	154.7
75°	116.6	118.6	120.6	124.6	124.6	124.6	126.6	128.6	128.6	128.6
77.5°	92.4	94.5	96.5	98.5	100.5	100.5	102.5	104.5	104.5	104.5
80°	70.3	72.3	74.4	76.4	76.4	78.4	78.4	80.4	80.4	80.4
82.5°	50.2	52.2	54.3	56.3	58.3	58.3	60.3	62.3	62.3	60.3
85°	34.2	38.2	40.2	42.2	42.2	42.2	44.2	46.2	46.2	44.2
87.5°	24.1	24.1	26.1	28.1	28.1	30.1	30.1	32.2	32.2	32.2
90°	14.1	14.1	16.1	16.1	18.1	18.1	18.1	20.1	20.1	20.1
92.5°	34.2	34.2	36.2	36.2	36.2	36.2	38.2	38.2	38.2	38.2
95°	365.7	164.8	138.7	84.4	80.4	70.3	68.3	70.3	70.3	68.3
97.5°	1227.9	1314.3	1368.5	1394.7	1362.5	1328.3	1290.2	1284.1	1231.9	1115.3
100°	1324.3	1392.6	1459.0	1505.2	1523.3	1539.3	1575.5	1597.6	1607.7	1617.7
102.5°	1372.5	1444.9	1503.2	1561.4	1585.6	1607.7	1639.8	1665.9	1676.0	1684.0
105°	1414.7	1489.1	1553.4	1605.7	1627.8	1647.9	1680.0	1704.1	1722.2	1724.2
107.5°	1424.8	1503.2	1575.5	1639.8	1665.9	1688.1	1726.2	1744.3	1760.4	1760.4
110°	1442.9	1517.2	1583.6	1641.8	1668.0	1694.1	1734.3	1762.4	1778.5	1782.5



TEST NUMBER: P393837

CATALOG NUMBER: I3-UL-80L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1456.9	1533.3	1595.6	1653.9	1676.0	1700.1	1738.3	1764.4	1778.5	1784.5
115°	1469.0	1543.4	1605.7	1659.9	1684.0	1708.1	1746.3	1768.4	1784.5	1790.5
117.5°	1477.0	1549.4	1611.7	1661.9	1688.1	1708.1	1744.3	1768.4	1784.5	1786.5
120°	1479.1	1551.4	1611.7	1661.9	1684.0	1706.1	1742.3	1766.4	1782.5	1782.5
122.5°	1479.1	1549.4	1609.7	1657.9	1678.0	1698.1	1732.3	1760.4	1774.5	1774.5
125°	1471.0	1541.4	1599.6	1647.9	1668.0	1686.0	1722.2	1748.3	1762.4	1764.4
127.5°	1459.0	1527.3	1585.6	1633.8	1653.9	1670.0	1708.1	1732.3	1746.3	1748.3
130°	1442.9	1511.2	1567.5	1613.7	1633.8	1651.9	1684.0	1710.2	1726.2	1730.3
132.5°	1424.8	1489.1	1545.4	1589.6	1609.7	1625.8	1657.9	1684.0	1698.1	1704.1
135°	1402.7	1463.0	1517.2	1561.4	1581.5	1597.6	1627.8	1653.9	1668.0	1674.0
137.5°	1374.6	1432.8	1485.1	1529.3	1547.4	1563.5	1593.6	1617.7	1629.8	1637.8
140°	1342.4	1396.7	1450.9	1491.1	1509.2	1525.3	1551.4	1577.5	1589.6	1595.6
142.5°	1308.2	1362.5	1410.7	1450.9	1467.0	1483.1	1509.2	1533.3	1545.4	1547.4
145°	1272.1	1324.3	1368.5	1406.7	1420.8	1436.9	1461.0	1485.1	1497.1	1499.1
147.5°	1231.9	1280.1	1322.3	1358.5	1374.6	1386.6	1408.7	1430.8	1442.9	1444.9
150°	1185.7	1229.9	1268.0	1304.2	1318.3	1330.3	1354.5	1374.6	1386.6	1388.6
152.5°	1141.4	1183.6	1215.8	1248.0	1262.0	1274.1	1294.2	1314.3	1326.3	1328.3
155°	1095.2	1133.4	1165.6	1191.7	1203.7	1215.8	1231.9	1250.0	1260.0	1262.0
157.5°	1047.0	1083.2	1111.3	1135.4	1147.5	1157.5	1171.6	1187.7	1193.7	1197.7
160°	994.7	1024.9	1049.0	1073.1	1083.2	1093.2	1107.3	1119.3	1127.4	1129.4
162.5°	938.5	964.6	984.7	1006.8	1012.8	1020.9	1034.9	1047.0	1053.0	1055.0
165°	880.2	904.3	922.4	940.5	944.5	950.5	960.6	972.6	976.7	980.7
167.5°	821.9	842.0	854.1	870.1	876.2	880.2	890.2	898.3	902.3	904.3
170°	765.7	779.7	789.8	801.8	803.8	809.9	815.9	823.9	825.9	825.9
172.5°	721.4	727.5	733.5	737.5	739.5	741.5	745.6	747.6	747.6	747.6
175°	693.3	697.3	697.3	699.3	699.3	699.3	699.3	699.3	699.3	699.3
177.5°	677.2	677.2	677.2	675.2	675.2	675.2	675.2	673.2	673.2	673.2
180°	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2

(END OF REPORT)