

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: P395787

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

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395787
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-80L83050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, OPEN TOP
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: 8531.2 lumens
Efficiency: N/A
Efficacy: 130.4 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

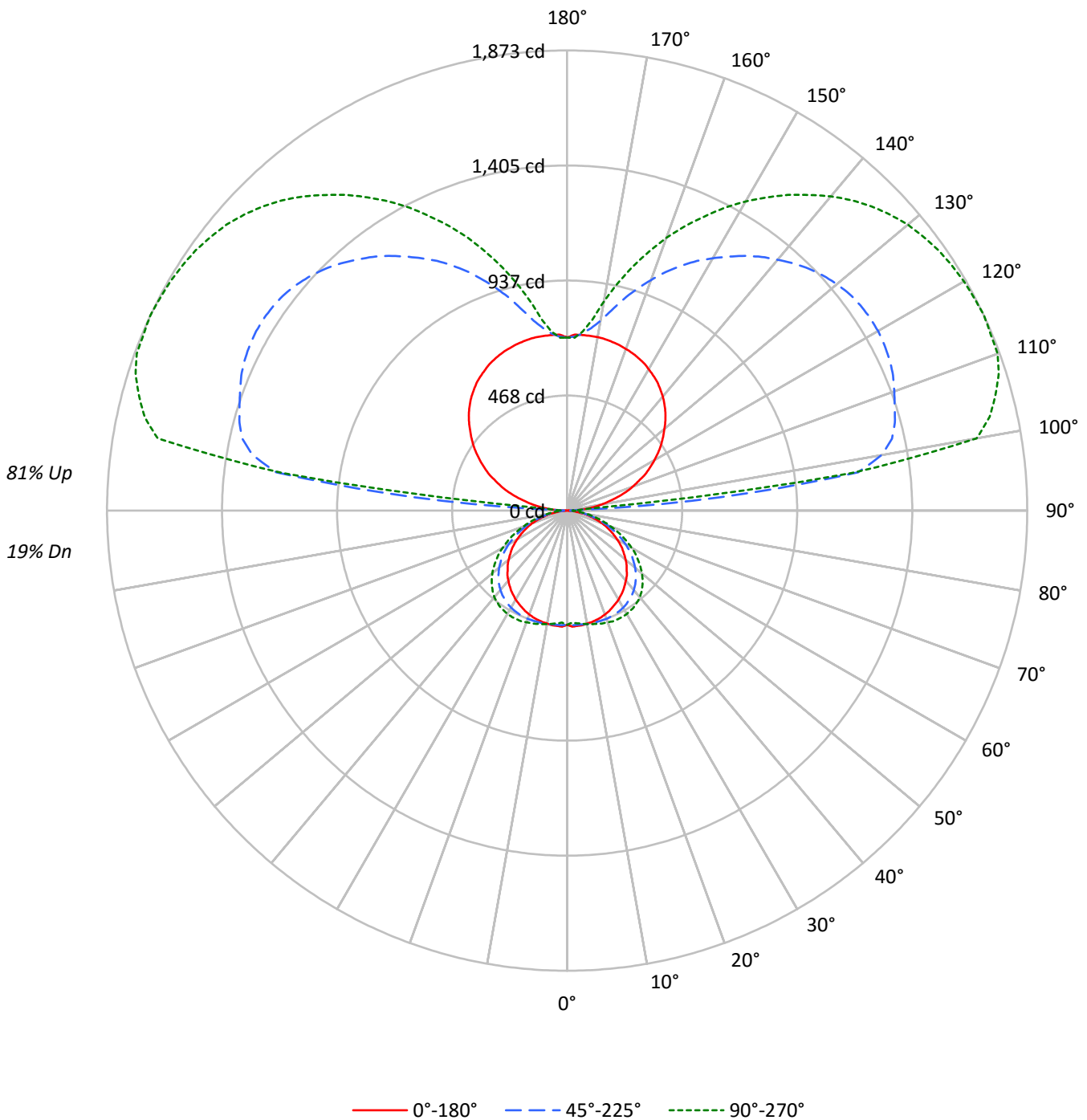
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2554	2554	2554
5°	2589	2517	2469
10°	2586	2500	2472
15°	2591	2491	2493
20°	2591	2501	2523
25°	2588	2507	2560
30°	2592	2510	2585
35°	2589	2498	2597
40°	2578	2479	2582
45°	2555	2428	2525
50°	2533	2348	2432
55°	2488	2235	2293
60°	2411	2073	2110
65°	2305	1846	1882
70°	2178	1601	1587
75°	1888	1255	1274
80°	1502	903	921
85°	891	525	607



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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	0.5
10°-20°	132.6	1.6
20°-30°	213.3	2.5
30°-40°	274.5	3.2
40°-50°	301.5	3.5
50°-60°	283.3	3.3
60°-70°	220.1	2.6
70°-80°	126.3	1.5
80°-90°	40.5	0.5
90°-100°	545.3	6.4
100°-110°	1296.0	15.2
110°-120°	1301.9	15.3
120°-130°	1193.9	14.0
130°-140°	998.3	11.7
140°-150°	749.3	8.8
150°-160°	487.8	5.7
160°-170°	251.2	2.9
170°-180°	71.1	0.8
0°-30°	390.3	4.6
0°-40°	664.8	7.8
0°-60°	1249.6	14.6
0°-90°	1636.5	19.2
90°-120°	3143.2	36.8
90°-150°	6084.7	71.3
90°-180°	6895.0	80.8
0°-180°	8531.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	471	467	467	465	460	45
15°	460	458	469	475	477	130
25°	435	439	465	482	488	201
35°	397	408	442	469	477	248
45°	343	360	395	425	433	265
55°	275	290	322	345	353	246
65°	193	204	223	242	248	191
75°	103	107	118	130	135	110
85°	21	25	34	44	46	25
90°	2	6	13	19	21	6
95°	74	610	627	84	72	73
105°	212	818	1381	1703	1804	225
115°	351	921	1449	1762	1873	345
125°	467	961	1457	1745	1846	417
135°	566	957	1392	1655	1751	436
145°	639	917	1266	1486	1568	399
155°	685	841	1100	1259	1320	316
165°	711	759	892	988	1026	201
175°	717	715	723	732	732	68
180°	704	704	704	704	704	



TEST NUMBER: P395787

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7
2.5°	473.1	471.0	468.9	468.9	466.8	466.8	466.8	464.7	464.7	464.7	466.8
5°	471.0	471.0	468.9	466.8	466.8	466.8	464.7	464.7	464.7	464.7	466.8
7.5°	471.0	468.9	466.8	466.8	464.7	464.7	464.7	464.7	464.7	464.7	466.8
10°	466.8	466.8	464.7	464.7	462.6	464.7	464.7	464.7	464.7	464.7	468.9
12.5°	464.7	464.7	462.6	460.5	460.5	460.5	462.6	462.6	462.6	464.7	468.9
15°	460.5	460.5	458.3	458.3	458.3	458.3	460.5	460.5	462.6	464.7	468.9
17.5°	456.2	456.2	454.1	454.1	454.1	456.2	456.2	458.3	460.5	464.7	468.9
20°	449.9	449.9	449.9	449.9	449.9	452.0	452.0	454.1	458.3	462.6	468.9
22.5°	443.6	443.6	443.6	443.6	443.6	445.7	447.8	452.0	454.1	460.5	466.8
25°	435.2	435.2	435.2	435.2	437.3	439.4	441.5	445.7	449.9	456.2	464.7
27.5°	426.8	428.9	428.9	428.9	431.0	433.1	435.2	439.4	445.7	454.1	460.5
30°	418.4	418.4	418.4	420.5	422.6	424.7	428.9	433.1	439.4	447.8	456.2
32.5°	407.9	407.9	410.0	410.0	414.2	416.3	420.5	426.8	433.1	441.5	449.9
35°	397.4	397.4	397.4	401.6	403.7	407.9	410.0	416.3	424.7	433.1	441.5
37.5°	384.8	386.9	386.9	389.0	393.2	397.4	399.5	407.9	416.3	424.7	433.1
40°	372.1	374.2	374.2	376.4	382.7	384.8	389.0	397.4	403.7	414.2	422.6
42.5°	359.5	359.5	361.6	363.7	370.0	372.1	376.4	384.8	393.2	401.6	410.0
45°	342.7	344.8	346.9	349.0	355.3	359.5	363.7	370.0	378.5	386.9	395.3
47.5°	328.0	328.0	330.1	334.3	340.6	344.8	346.9	355.3	361.6	370.0	378.5
50°	311.2	313.3	313.3	317.5	323.8	328.0	330.1	338.5	344.8	353.2	361.6
52.5°	292.2	294.4	296.5	300.7	307.0	311.2	313.3	319.6	325.9	334.3	340.6
55°	275.4	277.5	277.5	281.7	288.0	290.1	294.4	298.6	307.0	313.3	321.7
57.5°	256.5	258.6	258.6	262.8	267.0	271.2	273.3	279.6	285.9	292.2	298.6
60°	235.5	237.6	239.7	241.8	246.0	250.2	252.3	256.5	262.8	269.1	275.4
62.5°	214.5	216.6	218.7	220.8	225.0	227.1	229.2	235.5	239.7	246.0	250.2
65°	193.4	195.5	197.6	199.7	201.8	203.9	206.0	210.3	214.5	220.8	222.9
67.5°	172.4	174.5	174.5	176.6	178.7	180.8	182.9	187.1	189.2	195.5	197.6
70°	151.4	151.4	151.4	153.5	153.5	155.6	157.7	161.9	164.0	168.2	172.4
72.5°	126.2	128.3	128.3	128.3	130.4	132.5	134.6	136.7	138.8	140.9	145.1
75°	103.0	105.1	103.0	105.1	107.2	107.2	109.3	111.4	113.5	115.6	117.7
77.5°	82.0	79.9	82.0	82.0	84.1	84.1	84.1	86.2	90.4	90.4	94.6
80°	58.9	58.9	58.9	58.9	61.0	61.0	63.1	63.1	67.3	69.4	71.5
82.5°	37.8	37.8	39.9	39.9	39.9	42.1	42.1	44.2	46.3	48.4	50.5
85°	21.0	21.0	21.0	23.1	23.1	25.2	25.2	27.3	29.4	31.5	33.6
87.5°	6.3	8.4	10.5	10.5	12.6	12.6	14.7	14.7	18.9	21.0	23.1
90°	2.1	2.1	4.2	4.2	4.2	6.3	6.3	8.4	8.4	10.5	12.6
92.5°	35.7	84.1	174.5	260.7	225.0	210.3	126.2	37.8	33.6	35.7	35.7
95°	73.6	138.8	254.4	412.1	534.0	609.7	660.2	756.9	855.7	838.9	626.6
97.5°	107.2	178.7	307.0	452.0	620.2	706.4	771.6	887.3	1013.4	1118.5	1194.2
100°	140.9	214.5	351.1	502.5	658.1	735.9	811.6	969.3	1093.3	1198.4	1299.4
102.5°	176.6	250.2	391.1	548.8	702.2	777.9	851.5	990.3	1129.1	1255.2	1354.0
105°	212.4	288.0	426.8	588.7	742.2	817.9	889.4	1021.8	1150.1	1267.8	1381.4
107.5°	250.2	321.7	458.3	620.2	773.7	849.4	920.9	1053.4	1177.4	1295.2	1398.2
110°	283.8	353.2	489.9	649.7	803.2	878.9	950.3	1082.8	1204.7	1316.2	1417.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	315.4	382.7	519.3	674.9	826.3	902.0	971.4	1103.8	1225.8	1335.1	1436.0
115°	351.1	410.0	548.8	698.0	847.3	920.9	990.3	1120.6	1242.6	1349.8	1448.6
117.5°	380.6	437.3	574.0	717.0	864.1	935.6	1002.9	1133.3	1253.1	1360.3	1457.0
120°	410.0	462.6	597.1	733.8	876.7	946.1	1013.4	1141.7	1261.5	1366.6	1461.2
122.5°	439.4	487.8	616.0	750.6	887.3	956.6	1021.8	1148.0	1265.7	1368.7	1461.2
125°	466.8	508.8	632.9	763.2	893.6	960.9	1023.9	1148.0	1263.6	1364.5	1457.0
127.5°	492.0	531.9	645.5	775.8	897.8	963.0	1023.9	1143.8	1259.4	1358.2	1448.6
130°	517.2	553.0	658.1	782.1	902.0	960.9	1019.7	1135.4	1248.9	1347.7	1433.9
132.5°	542.4	576.1	668.6	788.4	904.1	960.9	1015.5	1126.9	1236.3	1333.0	1415.0
135°	565.6	592.9	679.1	792.6	902.0	956.6	1007.1	1112.2	1217.4	1312.0	1391.9
137.5°	586.6	609.7	687.5	794.8	899.9	950.3	1000.8	1095.4	1194.2	1286.7	1364.5
140°	605.5	626.6	691.7	794.8	891.5	941.9	988.2	1078.6	1169.0	1257.3	1333.0
142.5°	622.3	641.3	698.0	790.5	883.1	931.4	975.6	1061.8	1143.8	1227.9	1301.5
145°	639.2	653.9	702.2	788.4	872.5	916.7	958.7	1040.7	1120.6	1196.3	1265.7
147.5°	651.8	666.5	706.4	780.0	859.9	899.9	939.8	1017.6	1091.2	1162.7	1225.8
150°	664.4	677.0	708.5	771.6	845.2	881.0	916.7	990.3	1061.8	1126.9	1185.8
152.5°	677.0	685.4	714.9	763.2	828.4	862.0	897.8	963.0	1028.1	1089.1	1145.9
155°	685.4	691.7	717.0	754.8	811.6	841.0	870.4	931.4	990.3	1047.1	1099.6
157.5°	693.8	700.1	719.1	748.5	792.6	820.0	845.2	897.8	952.4	1002.9	1051.3
160°	700.1	704.3	719.1	744.3	775.8	794.8	817.9	866.2	912.5	956.6	998.7
162.5°	706.4	708.5	719.1	738.0	761.1	773.7	790.5	828.4	870.4	908.3	946.1
165°	710.7	712.8	719.1	733.8	748.5	759.0	767.4	794.8	826.3	859.9	891.5
167.5°	714.9	714.9	719.1	729.6	738.0	744.3	750.6	765.3	786.3	811.6	834.7
170°	717.0	717.0	719.1	725.4	731.7	733.8	738.0	746.4	756.9	769.5	784.2
172.5°	717.0	717.0	717.0	721.2	723.3	723.3	723.3	727.5	733.8	742.2	748.5
175°	717.0	714.9	714.9	717.0	714.9	714.9	714.9	714.9	717.0	721.2	723.3
177.5°	717.0	714.9	712.8	712.8	710.7	710.7	708.5	708.5	708.5	708.5	708.5
180°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7
2.5°	466.8	466.8	464.7	462.6	462.6	462.6	460.5	458.3	456.2	456.2
5°	466.8	466.8	464.7	464.7	464.7	464.7	462.6	462.6	460.5	460.5
7.5°	468.9	466.8	466.8	466.8	466.8	466.8	466.8	466.8	464.7	464.7
10°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
12.5°	471.0	471.0	471.0	471.0	473.1	473.1	473.1	473.1	473.1	473.1
15°	471.0	473.1	475.2	475.2	475.2	477.3	477.3	477.3	477.3	477.3
17.5°	473.1	475.2	477.3	477.3	479.4	479.4	481.5	481.5	481.5	481.5
20°	473.1	475.2	477.3	479.4	481.5	481.5	483.6	485.7	485.7	483.6
22.5°	471.0	475.2	477.3	479.4	481.5	483.6	485.7	487.8	487.8	487.8
25°	468.9	473.1	477.3	481.5	481.5	483.6	487.8	487.8	487.8	487.8
27.5°	466.8	471.0	475.2	479.4	481.5	483.6	485.7	487.8	487.8	487.8
30°	462.6	468.9	473.1	477.3	479.4	481.5	483.6	485.7	485.7	485.7
32.5°	456.2	462.6	466.8	473.1	475.2	477.3	479.4	481.5	481.5	481.5
35°	449.9	456.2	460.5	466.8	468.9	471.0	475.2	475.2	477.3	477.3
37.5°	439.4	447.8	452.0	458.3	460.5	462.6	466.8	468.9	468.9	468.9
40°	428.9	437.3	441.5	447.8	449.9	452.0	456.2	458.3	460.5	460.5
42.5°	416.3	424.7	428.9	435.2	437.3	439.4	443.6	445.7	447.8	447.8
45°	403.7	410.0	414.2	420.5	424.7	424.7	428.9	431.0	433.1	433.1
47.5°	386.9	393.2	397.4	403.7	407.9	410.0	412.1	414.2	416.3	416.3
50°	367.9	374.2	380.6	384.8	389.0	389.0	393.2	395.3	397.4	397.4
52.5°	349.0	353.2	359.5	365.8	367.9	370.0	372.1	374.2	376.4	376.4
55°	328.0	332.2	338.5	342.7	344.8	346.9	349.0	351.1	353.2	353.2
57.5°	304.9	309.1	315.4	319.6	321.7	323.8	325.9	328.0	330.1	330.1
60°	279.6	283.8	290.1	294.4	296.5	296.5	300.7	302.8	302.8	302.8
62.5°	254.4	258.6	262.8	267.0	269.1	271.2	273.3	275.4	275.4	275.4
65°	229.2	233.4	237.6	239.7	241.8	241.8	243.9	246.0	248.1	248.1
67.5°	201.8	206.0	210.3	212.4	214.5	214.5	216.6	218.7	218.7	218.7
70°	174.5	176.6	180.8	182.9	185.0	185.0	189.2	189.2	189.2	189.2
72.5°	147.2	149.3	153.5	155.6	157.7	157.7	159.8	161.9	161.9	161.9
75°	121.9	124.0	126.2	130.4	130.4	130.4	132.5	134.6	134.6	134.6
77.5°	96.7	98.8	100.9	103.0	105.1	105.1	107.2	109.3	109.3	109.3
80°	73.6	75.7	77.8	79.9	79.9	82.0	82.0	84.1	84.1	84.1
82.5°	52.6	54.7	56.8	58.9	61.0	61.0	63.1	65.2	65.2	63.1
85°	35.7	39.9	42.1	44.2	44.2	44.2	46.3	48.4	48.4	46.3
87.5°	25.2	25.2	27.3	29.4	29.4	31.5	31.5	33.6	33.6	33.6
90°	14.7	14.7	16.8	16.8	18.9	18.9	18.9	21.0	21.0	21.0
92.5°	35.7	35.7	37.8	37.8	37.8	37.8	39.9	39.9	39.9	39.9
95°	382.7	172.4	145.1	88.3	84.1	73.6	71.5	73.6	73.6	71.5
97.5°	1284.6	1375.0	1431.8	1459.1	1425.5	1389.8	1349.8	1343.5	1288.8	1166.9
100°	1385.6	1457.0	1526.4	1574.8	1593.7	1610.5	1648.4	1671.5	1682.0	1692.5
102.5°	1436.0	1511.7	1572.7	1633.7	1658.9	1682.0	1715.7	1743.0	1753.5	1761.9
105°	1480.2	1558.0	1625.2	1679.9	1703.0	1724.1	1757.7	1782.9	1801.9	1804.0
107.5°	1490.7	1572.7	1648.4	1715.7	1743.0	1766.1	1806.1	1825.0	1841.8	1841.8
110°	1509.6	1587.4	1656.8	1717.8	1745.1	1772.4	1814.5	1843.9	1860.7	1864.9



TEST NUMBER: P395787

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	1524.3	1604.2	1669.4	1730.4	1753.5	1778.7	1818.7	1846.0	1860.7	1867.0
115°	1536.9	1614.7	1679.9	1736.7	1761.9	1787.1	1827.1	1850.2	1867.0	1873.3
117.5°	1545.4	1621.0	1686.2	1738.8	1766.1	1787.1	1825.0	1850.2	1867.0	1869.1
120°	1547.5	1623.1	1686.2	1738.8	1761.9	1785.0	1822.9	1848.1	1864.9	1864.9
122.5°	1547.5	1621.0	1684.1	1734.6	1755.6	1776.6	1812.4	1841.8	1856.5	1856.5
125°	1539.0	1612.6	1673.6	1724.1	1745.1	1764.0	1801.9	1829.2	1843.9	1846.0
127.5°	1526.4	1597.9	1658.9	1709.3	1730.4	1747.2	1787.1	1812.4	1827.1	1829.2
130°	1509.6	1581.1	1640.0	1688.3	1709.3	1728.3	1761.9	1789.2	1806.1	1810.3
132.5°	1490.7	1558.0	1616.8	1663.1	1684.1	1700.9	1734.6	1761.9	1776.6	1782.9
135°	1467.6	1530.6	1587.4	1633.7	1654.7	1671.5	1703.0	1730.4	1745.1	1751.4
137.5°	1438.1	1499.1	1553.8	1600.0	1618.9	1635.8	1667.3	1692.5	1705.1	1713.6
140°	1404.5	1461.2	1518.0	1560.1	1579.0	1595.8	1623.1	1650.5	1663.1	1669.4
142.5°	1368.7	1425.5	1476.0	1518.0	1534.8	1551.7	1579.0	1604.2	1616.8	1618.9
145°	1330.9	1385.6	1431.8	1471.8	1486.5	1503.3	1528.5	1553.8	1566.4	1568.5
147.5°	1288.8	1339.3	1383.5	1421.3	1438.1	1450.7	1473.9	1497.0	1509.6	1511.7
150°	1240.5	1286.7	1326.7	1364.5	1379.3	1391.9	1417.1	1438.1	1450.7	1452.8
152.5°	1194.2	1238.4	1272.0	1305.7	1320.4	1333.0	1354.0	1375.0	1387.7	1389.8
155°	1145.9	1185.8	1219.5	1246.8	1259.4	1272.0	1288.8	1307.8	1318.3	1320.4
157.5°	1095.4	1133.3	1162.7	1187.9	1200.5	1211.1	1225.8	1242.6	1248.9	1253.1
160°	1040.7	1072.3	1097.5	1122.7	1133.3	1143.8	1158.5	1171.1	1179.5	1181.6
162.5°	981.9	1009.2	1030.2	1053.4	1059.7	1068.1	1082.8	1095.4	1101.7	1103.8
165°	920.9	946.1	965.1	984.0	988.2	994.5	1005.0	1017.6	1021.8	1026.0
167.5°	859.9	881.0	893.6	910.4	916.7	920.9	931.4	939.8	944.0	946.1
170°	801.1	815.8	826.3	838.9	841.0	847.3	853.6	862.0	864.1	864.1
172.5°	754.8	761.1	767.4	771.6	773.7	775.8	780.0	782.1	782.1	782.1
175°	725.4	729.6	729.6	731.7	731.7	731.7	731.7	731.7	731.7	731.7
177.5°	708.5	708.5	708.5	706.4	706.4	706.4	706.4	704.3	704.3	704.3
180°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3

(END OF REPORT)