

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: P395884

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4890.1 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

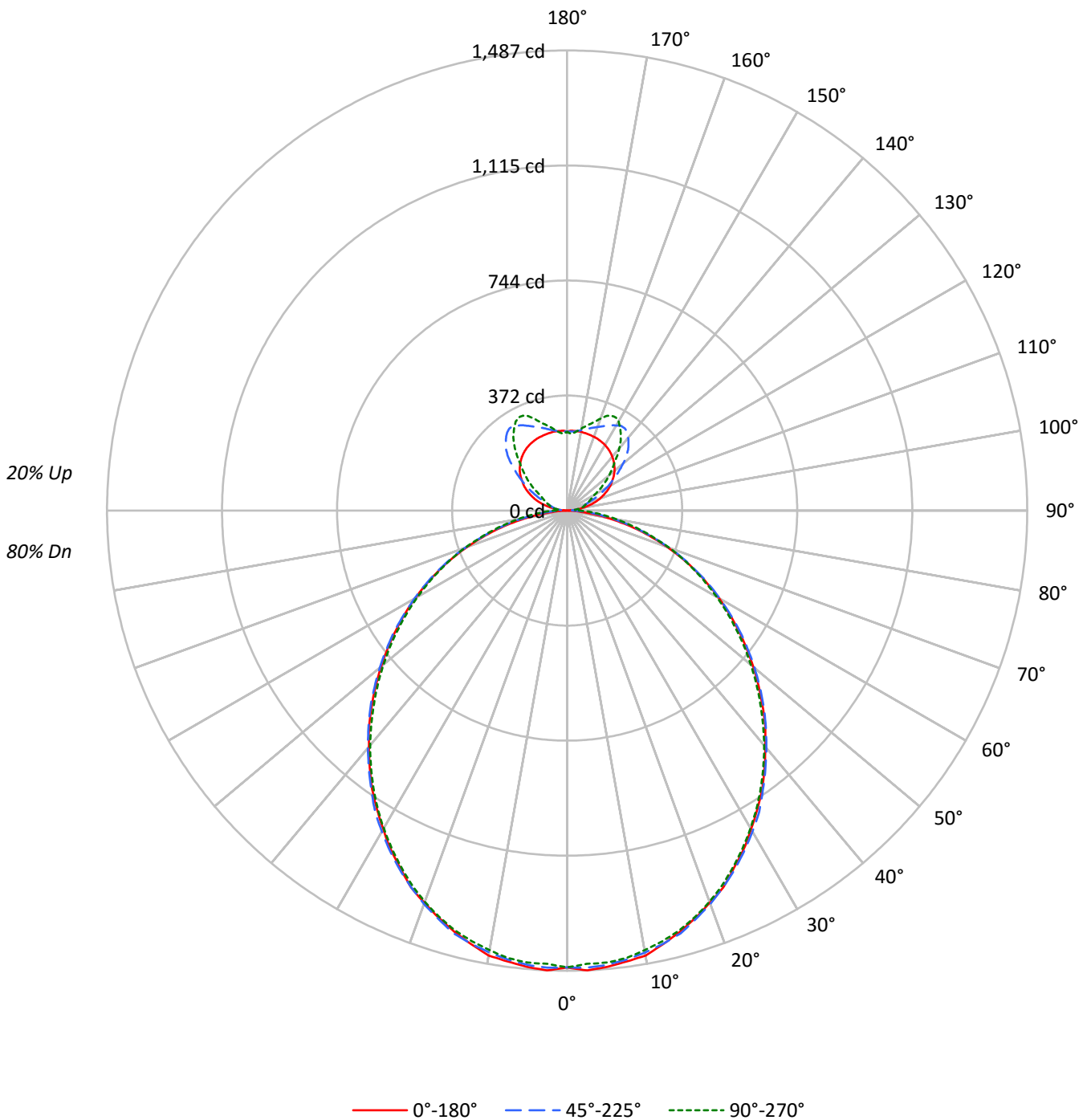
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	104	100	96	92	99	95	92	88	87	85	82	80	78	76	73	72	70	67
2	95	87	80	75	90	83	78	73	77	72	68	70	67	63	65	62	59	56
3	87	77	69	62	82	73	66	61	68	62	57	62	57	53	57	53	50	47
4	79	68	59	53	75	65	57	52	60	54	49	55	50	46	51	47	43	40
5	73	61	52	46	69	58	50	44	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	49	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	43	36	31	41	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	28	24	22
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8113	8113	8113
5°	8134	7946	7860
10°	8087	7729	7603
15°	7925	7516	7332
20°	7769	7213	7015
25°	7582	6907	6666
30°	7364	6590	6308
35°	7160	6238	5937
40°	6904	5875	5552
45°	6657	5521	5147
50°	6393	5133	4738
55°	6114	4736	4321
60°	5804	4296	3890
65°	5448	3817	3429
70°	4941	3259	2943
75°	4257	2583	2364
80°	3249	1861	1764
85°	1697	1112	1196



TEST NUMBER: P395884

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	2.9
10°-20°	395.6	8.1
20°-30°	585.7	12.0
30°-40°	684.5	14.0
40°-50°	687.6	14.1
50°-60°	604.3	12.4
60°-70°	452.8	9.3
70°-80°	257.5	5.3
80°-90°	81.3	1.7
90°-100°	29.3	0.6
100°-110°	71.4	1.5
110°-120°	118.7	2.4
120°-130°	166.5	3.4
130°-140°	191.9	3.9
140°-150°	183.2	3.7
150°-160°	137.8	2.8
160°-170°	78.0	1.6
170°-180°	24.7	0.5
0°-30°	1120.7	22.9
0°-40°	1805.2	36.9
0°-60°	3097.2	63.3
0°-90°	3888.8	79.5
90°-120°	219.4	4.5
90°-150°	760.9	15.6
90°-180°	1001.0	20.5
0°-180°	4890.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1480	1465	1474	1469	1466	141
15°	1409	1396	1415	1405	1404	397
25°	1275	1271	1280	1275	1270	588
35°	1099	1090	1103	1094	1091	686
45°	893	892	899	889	883	689
55°	677	679	682	673	666	605
65°	457	458	461	457	452	452
75°	232	236	242	250	250	246
85°	40	52	71	87	91	52
90°	1	8	22	34	39	3
95°	21	21	21	24	25	23
105°	84	71	54	56	57	87
115°	137	171	105	85	84	136
125°	181	250	189	151	140	162
135°	215	272	278	231	215	166
145°	237	270	325	311	302	148
155°	250	265	302	333	338	115
165°	256	260	275	286	290	72
175°	258	256	256	256	252	25
180°	255	255	255	255	255	



TEST NUMBER: P395884

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1
2.5°	1487.3	1484.8	1478.6	1472.3	1471.1	1469.8	1469.8	1468.6	1468.6	1471.1	1478.6
5°	1479.8	1478.6	1472.3	1466.1	1464.8	1464.8	1463.6	1463.6	1463.6	1466.1	1473.6
7.5°	1469.8	1467.3	1461.1	1454.8	1453.6	1453.6	1453.6	1452.3	1453.6	1454.8	1463.6
10°	1459.8	1458.6	1452.3	1444.8	1442.3	1442.3	1441.1	1438.6	1438.6	1441.1	1449.8
12.5°	1434.8	1433.6	1427.4	1422.4	1422.4	1423.6	1423.6	1424.9	1424.9	1427.4	1433.6
15°	1408.6	1407.4	1401.1	1396.1	1396.1	1396.1	1394.9	1394.9	1396.1	1403.6	1414.9
17.5°	1379.9	1378.7	1373.7	1368.7	1368.7	1368.7	1367.4	1367.4	1368.7	1372.4	1383.6
20°	1348.7	1347.4	1342.4	1337.4	1337.4	1337.4	1336.2	1337.4	1337.4	1342.4	1352.4
22.5°	1318.7	1316.2	1310.0	1305.0	1302.5	1302.5	1302.5	1301.2	1303.7	1307.5	1317.5
25°	1275.0	1273.8	1271.3	1267.5	1270.0	1271.3	1268.8	1266.3	1266.3	1271.3	1280.0
27.5°	1235.0	1232.5	1228.8	1225.1	1222.6	1223.8	1225.1	1227.5	1231.3	1232.5	1240.0
30°	1188.8	1187.6	1183.8	1178.8	1180.1	1181.3	1181.3	1181.3	1183.8	1195.1	1197.6
32.5°	1143.9	1142.6	1138.9	1133.9	1135.1	1136.4	1135.1	1136.4	1138.9	1143.9	1155.1
35°	1098.9	1096.4	1092.7	1091.4	1090.2	1090.2	1090.2	1091.4	1092.7	1096.4	1102.7
37.5°	1047.7	1045.2	1042.7	1039.0	1041.5	1044.0	1045.2	1044.0	1045.2	1050.2	1052.7
40°	996.5	995.3	992.8	990.3	991.5	992.8	991.5	995.3	997.8	1000.3	1001.5
42.5°	947.8	945.3	942.8	941.6	941.6	942.8	942.8	945.3	945.3	951.6	950.3
45°	892.9	891.6	890.4	890.4	891.6	891.6	891.6	892.9	894.1	897.9	899.1
47.5°	839.2	837.9	837.9	837.9	837.9	839.2	840.4	844.2	841.7	842.9	844.2
50°	785.5	784.2	784.2	784.2	786.7	786.7	789.2	790.5	791.7	789.2	790.5
52.5°	730.5	729.3	731.8	731.8	734.3	734.3	738.0	734.3	736.8	735.5	735.5
55°	676.8	675.6	678.1	676.8	679.3	679.3	681.8	683.1	681.8	681.8	681.8
57.5°	621.9	620.6	621.9	623.1	624.4	624.4	628.1	628.1	624.4	626.9	625.6
60°	566.9	565.7	566.9	568.2	569.4	569.4	570.7	568.2	570.7	571.9	570.7
62.5°	512.0	510.8	513.2	512.0	513.2	514.5	514.5	518.2	517.0	517.0	515.7
65°	457.1	455.8	455.8	455.8	457.1	458.3	459.6	460.8	460.8	462.0	460.8
67.5°	400.9	399.6	400.9	399.6	400.9	402.1	404.6	405.9	405.9	407.1	405.9
70°	343.4	344.7	343.4	344.7	345.9	347.2	348.4	350.9	350.9	350.9	350.9
72.5°	287.2	286.0	286.0	284.7	287.2	288.5	289.7	293.5	293.5	294.7	294.7
75°	232.3	229.8	231.0	229.8	234.8	236.0	236.0	239.8	241.0	243.5	242.3
77.5°	178.6	178.6	176.1	179.8	181.1	183.6	186.1	188.6	189.8	193.6	193.6
80°	127.4	127.4	126.1	128.6	133.6	134.9	138.6	139.9	143.6	146.1	147.4
82.5°	81.2	81.2	81.2	84.9	88.7	89.9	93.7	97.4	99.9	103.6	104.9
85°	40.0	42.5	42.5	47.5	50.0	52.4	53.7	58.7	62.4	67.4	71.2
87.5°	12.5	13.7	15.0	17.5	22.5	23.7	26.2	31.2	35.0	40.0	43.7
90°	1.2	1.2	2.5	3.7	6.2	7.5	10.0	12.5	16.2	20.0	22.5
92.5°	8.7	8.7	10.0	10.0	10.0	10.0	10.0	11.2	12.5	15.0	16.2
95°	21.2	33.7	20.0	18.7	21.2	21.2	22.5	21.2	21.2	21.2	21.2
97.5°	35.0	62.4	41.2	28.7	27.5	28.7	28.7	31.2	32.5	33.7	33.7
100°	51.2	78.7	72.4	47.5	38.7	37.5	37.5	37.5	38.7	40.0	41.2
102.5°	67.4	89.9	103.6	73.7	54.9	50.0	47.5	46.2	45.0	46.2	46.2
105°	83.7	101.2	127.4	99.9	78.7	71.2	63.7	54.9	53.7	53.7	53.7
107.5°	98.7	112.4	144.9	129.9	102.4	94.9	86.2	72.4	63.7	62.4	61.2
110°	112.4	123.6	157.3	154.8	128.6	117.4	109.9	94.9	82.4	73.7	69.9



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	124.9	134.9	166.1	176.1	157.3	143.6	132.4	117.4	103.6	92.4	83.7
115°	137.4	146.1	173.6	193.6	182.3	171.1	158.6	139.9	126.1	114.9	104.9
117.5°	149.9	157.3	181.1	206.0	203.6	196.1	186.1	163.6	147.4	136.1	124.9
120°	161.1	168.6	188.6	214.8	222.3	216.0	209.8	189.8	169.8	157.3	147.4
122.5°	171.1	177.3	196.1	222.3	236.0	234.8	228.5	214.8	194.8	179.8	167.3
125°	181.1	187.3	203.6	227.3	246.0	249.8	247.3	236.0	221.0	203.6	188.6
127.5°	191.1	196.1	211.0	232.3	253.5	261.0	262.2	254.8	243.5	228.5	212.3
130°	199.8	204.8	217.3	236.0	258.5	267.2	272.2	271.0	262.2	252.3	236.0
132.5°	207.3	211.0	223.5	239.8	261.0	271.0	278.5	284.7	278.5	271.0	259.7
135°	214.8	218.5	228.5	243.5	262.2	272.2	282.2	292.2	293.5	287.2	278.5
137.5°	221.0	223.5	233.5	246.0	262.2	272.2	282.2	296.0	303.5	301.0	293.5
140°	227.3	229.8	237.3	249.8	263.5	272.2	281.0	297.2	307.2	310.9	307.2
142.5°	232.3	234.8	241.0	252.3	263.5	271.0	279.7	294.7	308.4	315.9	318.4
145°	237.3	238.5	244.8	253.5	263.5	269.7	277.2	292.2	306.0	317.2	324.7
147.5°	241.0	242.3	246.0	254.8	263.5	268.5	274.7	287.2	301.0	313.4	324.7
150°	244.8	244.8	248.5	254.8	263.5	267.2	272.2	283.5	294.7	307.2	317.2
152.5°	247.3	247.3	251.0	256.0	262.2	266.0	271.0	279.7	289.7	301.0	310.9
155°	249.8	249.8	252.3	256.0	262.2	264.7	268.5	276.0	284.7	293.5	302.2
157.5°	252.3	252.3	253.5	257.2	261.0	263.5	267.2	273.5	279.7	287.2	294.7
160°	253.5	253.5	254.8	257.2	259.7	262.2	264.7	269.7	276.0	281.0	287.2
162.5°	254.8	254.8	256.0	257.2	259.7	261.0	262.2	267.2	271.0	276.0	281.0
165°	256.0	256.0	256.0	257.2	258.5	259.7	261.0	263.5	267.2	271.0	274.7
167.5°	257.2	257.2	257.2	257.2	258.5	258.5	259.7	261.0	263.5	266.0	268.5
170°	258.5	257.2	257.2	258.5	257.2	257.2	258.5	259.7	259.7	262.2	263.5
172.5°	258.5	258.5	257.2	257.2	257.2	257.2	257.2	257.2	257.2	258.5	259.7
175°	258.5	258.5	257.2	257.2	257.2	256.0	256.0	256.0	256.0	256.0	256.0
177.5°	258.5	258.5	257.2	257.2	256.0	256.0	256.0	256.0	256.0	256.0	256.0
180°	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1
2.5°	1486.0	1479.8	1477.3	1476.1	1474.8	1473.6	1471.1	1468.6	1466.1	1466.1
5°	1479.8	1473.6	1471.1	1469.8	1468.6	1467.3	1466.1	1466.1	1466.1	1466.1
7.5°	1469.8	1463.6	1461.1	1459.8	1459.8	1458.6	1458.6	1458.6	1457.3	1458.6
10°	1454.8	1448.6	1447.3	1446.1	1444.8	1442.3	1442.3	1442.3	1441.1	1442.3
12.5°	1436.1	1429.9	1428.6	1427.4	1426.1	1424.9	1424.9	1423.6	1423.6	1424.9
15°	1417.4	1408.6	1406.1	1406.1	1404.9	1403.6	1404.9	1403.6	1403.6	1403.6
17.5°	1389.9	1386.1	1382.4	1379.9	1378.7	1377.4	1377.4	1376.2	1376.2	1376.2
20°	1353.7	1353.7	1353.7	1347.4	1346.2	1344.9	1344.9	1344.9	1344.9	1344.9
22.5°	1318.7	1312.5	1317.5	1313.7	1311.2	1308.7	1310.0	1310.0	1310.0	1310.0
25°	1280.0	1275.0	1276.3	1277.5	1275.0	1271.3	1271.3	1271.3	1271.3	1270.0
27.5°	1238.8	1235.0	1233.8	1235.0	1237.5	1235.0	1231.3	1227.5	1228.8	1228.8
30°	1193.8	1192.6	1191.3	1188.8	1191.3	1192.6	1186.3	1185.1	1185.1	1185.1
32.5°	1148.9	1147.6	1143.9	1141.4	1142.6	1145.1	1142.6	1140.1	1140.1	1140.1
35°	1103.9	1098.9	1095.2	1093.9	1093.9	1096.4	1095.2	1091.4	1091.4	1091.4
37.5°	1051.5	1052.7	1046.5	1045.2	1045.2	1045.2	1047.7	1041.5	1042.7	1041.5
40°	1000.3	1001.5	997.8	994.0	995.3	992.8	996.5	990.3	990.3	990.3
42.5°	949.1	946.6	947.8	940.3	941.6	941.6	942.8	939.1	937.8	936.6
45°	896.6	894.1	892.9	889.1	889.1	887.9	887.9	882.9	882.9	882.9
47.5°	841.7	840.4	837.9	835.4	835.4	834.2	831.7	830.4	829.2	829.2
50°	789.2	785.5	781.7	783.0	781.7	780.5	778.0	776.7	775.5	774.2
52.5°	733.0	733.0	728.0	728.0	728.0	726.8	724.3	721.8	721.8	720.5
55°	678.1	676.8	673.1	671.8	673.1	671.8	669.3	666.8	666.8	665.6
57.5°	623.1	620.6	619.4	619.4	618.1	618.1	614.4	611.9	613.2	611.9
60°	566.9	566.9	565.7	564.4	564.4	563.2	559.5	559.5	559.5	558.2
62.5°	513.2	513.2	510.8	509.5	510.8	509.5	508.3	507.0	505.8	504.5
65°	457.1	458.3	455.8	457.1	457.1	454.6	454.6	453.3	453.3	452.1
67.5°	404.6	404.6	403.4	403.4	404.6	403.4	403.4	402.1	402.1	400.9
70°	350.9	353.4	352.2	352.2	352.2	350.9	350.9	350.9	349.7	350.9
72.5°	297.2	297.2	297.2	297.2	297.2	298.5	298.5	298.5	298.5	297.2
75°	247.3	248.5	247.3	248.5	249.8	249.8	249.8	249.8	251.0	249.8
77.5°	198.6	199.8	199.8	202.3	202.3	202.3	203.6	203.6	203.6	203.6
80°	152.4	153.6	154.8	157.3	157.3	159.8	161.1	161.1	161.1	161.1
82.5°	109.9	113.6	114.9	118.6	119.9	119.9	122.4	123.6	123.6	123.6
85°	76.2	79.9	82.4	84.9	87.4	87.4	89.9	89.9	91.2	91.2
87.5°	47.5	51.2	53.7	57.4	58.7	59.9	61.2	62.4	63.7	63.7
90°	26.2	28.7	31.2	33.7	33.7	35.0	36.2	37.5	38.7	38.7
92.5°	18.7	20.0	22.5	23.7	23.7	25.0	26.2	26.2	27.5	27.5
95°	21.2	22.5	22.5	23.7	23.7	23.7	25.0	25.0	25.0	25.0
97.5°	32.5	32.5	32.5	31.2	31.2	31.2	31.2	31.2	31.2	31.2
100°	42.5	43.7	43.7	43.7	45.0	45.0	45.0	45.0	43.7	43.7
102.5°	47.5	48.7	50.0	51.2	51.2	51.2	52.4	52.4	52.4	52.4
105°	53.7	53.7	54.9	56.2	56.2	56.2	57.4	57.4	57.4	57.4
107.5°	61.2	61.2	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
110°	69.9	69.9	69.9	68.7	69.9	68.7	68.7	68.7	68.7	68.7



TEST NUMBER: P395884

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	79.9	78.7	78.7	77.4	77.4	77.4	76.2	76.2	76.2	76.2
115°	96.2	89.9	87.4	84.9	84.9	84.9	83.7	83.7	83.7	83.7
117.5°	116.1	107.4	102.4	97.4	96.2	94.9	92.4	92.4	91.2	91.2
120°	137.4	128.6	121.1	114.9	112.4	111.1	107.4	104.9	102.4	102.4
122.5°	157.3	148.6	141.1	134.9	132.4	129.9	126.1	123.6	121.1	121.1
125°	177.3	168.6	161.1	154.8	151.1	148.6	144.9	142.4	139.9	139.9
127.5°	198.6	187.3	179.8	173.6	169.8	168.6	163.6	161.1	158.6	158.6
130°	222.3	208.5	198.6	191.1	188.6	186.1	182.3	179.8	177.3	177.3
132.5°	246.0	232.3	221.0	211.0	207.3	204.8	199.8	197.3	194.8	194.8
135°	268.5	256.0	244.8	234.8	231.0	227.3	222.3	217.3	214.8	214.8
137.5°	286.0	277.2	267.2	258.5	254.8	251.0	246.0	241.0	237.3	238.5
140°	301.0	293.5	287.2	281.0	277.2	274.7	269.7	266.0	262.2	262.2
142.5°	314.7	308.4	302.2	297.2	296.0	294.7	291.0	287.2	284.7	284.7
145°	327.2	323.4	318.4	312.2	310.9	309.7	306.0	303.5	302.2	302.2
147.5°	330.9	332.2	330.9	327.2	325.9	324.7	322.2	319.7	318.4	318.4
150°	328.4	333.4	335.9	335.9	335.9	335.9	335.9	333.4	332.2	332.2
152.5°	320.9	328.4	333.4	337.2	338.4	339.7	339.7	340.9	339.7	339.7
155°	312.2	319.7	327.2	330.9	333.4	334.7	337.2	338.4	339.7	338.4
157.5°	302.2	308.4	313.4	320.9	323.4	325.9	328.4	330.9	332.2	330.9
160°	293.5	298.5	302.2	307.2	308.4	310.9	313.4	314.7	317.2	315.9
162.5°	284.7	288.5	292.2	294.7	297.2	298.5	301.0	302.2	303.5	302.2
165°	278.5	281.0	282.2	284.7	286.0	287.2	288.5	289.7	289.7	289.7
167.5°	271.0	273.5	274.7	276.0	277.2	278.5	278.5	279.7	279.7	279.7
170°	264.7	266.0	267.2	268.5	268.5	269.7	269.7	269.7	271.0	269.7
172.5°	259.7	259.7	259.7	261.0	261.0	261.0	261.0	261.0	261.0	259.7
175°	257.2	257.2	256.0	256.0	256.0	256.0	256.0	254.8	253.5	252.3
177.5°	256.0	254.8	254.8	253.5	253.5	253.5	252.3	251.0	249.8	248.5
180°	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8	254.8

(END OF REPORT)