

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: P395882

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395882
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 (3500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4702.4 lumens
Efficiency: N/A
Efficacy: 92.2 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

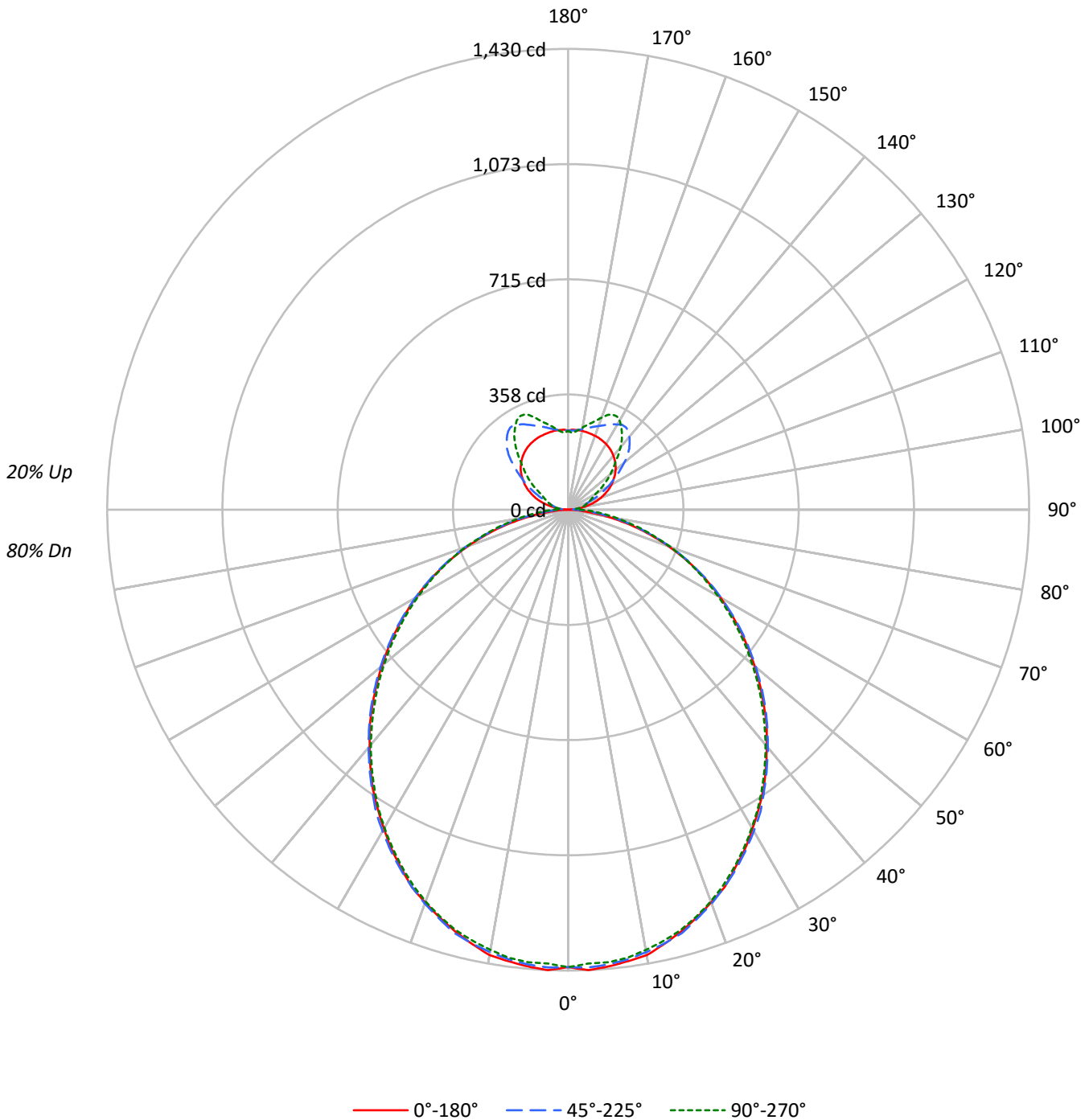
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-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	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°	7802	7802	7802
5°	7822	7641	7558
10°	7777	7433	7311
15°	7621	7228	7051
20°	7470	6936	6746
25°	7291	6642	6410
30°	7082	6337	6065
35°	6885	5998	5709
40°	6639	5650	5339
45°	6402	5309	4950
50°	6147	4936	4556
55°	5880	4555	4155
60°	5582	4131	3741
65°	5238	3671	3297
70°	4751	3134	2830
75°	4094	2484	2273
80°	3124	1789	1696
85°	1629	1068	1150



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.9
10°-20°	380.4	8.1
20°-30°	563.2	12.0
30°-40°	658.2	14.0
40°-50°	661.2	14.1
50°-60°	581.1	12.4
60°-70°	435.4	9.3
70°-80°	247.6	5.3
80°-90°	78.2	1.7
90°-100°	28.2	0.6
100°-110°	68.6	1.5
110°-120°	114.1	2.4
120°-130°	160.1	3.4
130°-140°	184.5	3.9
140°-150°	176.2	3.7
150°-160°	132.5	2.8
160°-170°	75.0	1.6
170°-180°	23.7	0.5
0°-30°	1077.7	22.9
0°-40°	1736.0	36.9
0°-60°	2978.3	63.3
0°-90°	3739.5	79.5
90°-120°	210.9	4.5
90°-150°	731.6	15.6
90°-180°	963.0	20.5
0°-180°	4702.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1423	1409	1417	1412	1410	135
15°	1355	1342	1361	1351	1350	382
25°	1226	1222	1231	1226	1221	565
35°	1057	1048	1060	1052	1050	660
45°	859	857	865	855	849	663
55°	651	653	656	647	640	582
65°	440	441	443	440	435	434
75°	223	227	233	240	240	237
85°	38	50	68	84	88	50
90°	1	7	22	32	37	3
95°	20	20	20	23	24	23
105°	80	68	52	54	55	84
115°	132	164	101	82	80	131
125°	174	240	181	145	134	156
135°	206	262	268	222	206	159
145°	228	259	312	299	291	143
155°	240	255	291	321	325	111
165°	246	250	264	275	279	70
175°	249	246	246	246	243	24
180°	245	245	245	245	245	



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4
2.5°	1430.2	1427.8	1421.8	1415.8	1414.6	1413.4	1413.4	1412.2	1412.2	1414.6	1421.8
5°	1423.0	1421.8	1415.8	1409.8	1408.6	1408.6	1407.4	1407.4	1407.4	1409.8	1417.0
7.5°	1413.4	1411.0	1405.0	1399.0	1397.8	1397.8	1397.8	1396.6	1397.8	1399.0	1407.4
10°	1403.8	1402.6	1396.6	1389.4	1387.0	1387.0	1385.8	1383.4	1383.4	1385.8	1394.2
12.5°	1379.8	1378.6	1372.6	1367.8	1367.8	1369.0	1369.0	1370.2	1370.2	1372.6	1378.6
15°	1354.6	1353.3	1347.3	1342.5	1342.5	1342.5	1341.3	1341.3	1342.5	1349.7	1360.6
17.5°	1326.9	1325.7	1320.9	1316.1	1316.1	1316.1	1314.9	1314.9	1316.1	1319.7	1330.5
20°	1296.9	1295.7	1290.9	1286.1	1286.1	1286.1	1284.9	1286.1	1286.1	1290.9	1300.5
22.5°	1268.1	1265.7	1259.7	1254.9	1252.5	1252.5	1252.5	1251.3	1253.7	1257.3	1266.9
25°	1226.1	1224.9	1222.5	1218.9	1221.3	1222.5	1220.1	1217.7	1217.7	1222.5	1230.9
27.5°	1187.6	1185.2	1181.6	1178.0	1175.6	1176.8	1178.0	1180.4	1184.0	1185.2	1192.4
30°	1143.2	1142.0	1138.4	1133.6	1134.8	1136.0	1136.0	1136.0	1138.4	1149.2	1151.6
32.5°	1100.0	1098.8	1095.2	1090.4	1091.6	1092.8	1091.6	1092.8	1095.2	1100.0	1110.8
35°	1056.7	1054.3	1050.7	1049.5	1048.3	1048.3	1048.3	1049.5	1050.7	1054.3	1060.3
37.5°	1007.5	1005.1	1002.7	999.1	1001.5	1003.9	1005.1	1003.9	1005.1	1009.9	1012.3
40°	958.3	957.1	954.7	952.3	953.5	954.7	953.5	957.1	959.5	961.9	963.1
42.5°	911.4	909.0	906.6	905.4	905.4	906.6	906.6	909.0	909.0	915.0	913.8
45°	858.6	857.4	856.2	856.2	857.4	857.4	857.4	858.6	859.8	863.4	864.6
47.5°	807.0	805.8	805.8	805.8	805.8	807.0	808.2	811.8	809.4	810.6	811.8
50°	755.3	754.1	754.1	754.1	756.5	756.5	758.9	760.1	761.3	758.9	760.1
52.5°	702.5	701.3	703.7	703.7	706.1	706.1	709.7	706.1	708.5	707.3	707.3
55°	650.9	649.7	652.1	650.9	653.3	653.3	655.7	656.9	655.7	655.7	655.7
57.5°	598.0	596.8	598.0	599.2	600.4	600.4	604.0	604.0	600.4	602.8	601.6
60°	545.2	544.0	545.2	546.4	547.6	547.6	548.8	546.4	548.8	550.0	548.8
62.5°	492.3	491.1	493.5	492.3	493.5	494.7	494.7	498.3	497.1	497.1	495.9
65°	439.5	438.3	438.3	438.3	439.5	440.7	441.9	443.1	443.1	444.3	443.1
67.5°	385.5	384.3	385.5	384.3	385.5	386.7	389.1	390.3	390.3	391.5	390.3
70°	330.2	331.4	330.2	331.4	332.6	333.8	335.0	337.4	337.4	337.4	337.4
72.5°	276.2	275.0	275.0	273.8	276.2	277.4	278.6	282.2	282.2	283.4	283.4
75°	223.4	221.0	222.2	221.0	225.8	227.0	227.0	230.6	231.8	234.2	233.0
77.5°	171.7	171.7	169.3	172.9	174.1	176.5	178.9	181.3	182.5	186.1	186.1
80°	122.5	122.5	121.3	123.7	128.5	129.7	133.3	134.5	138.1	140.5	141.7
82.5°	78.1	78.1	78.1	81.7	85.3	86.5	90.1	93.7	96.1	99.7	100.9
85°	38.4	40.8	40.8	45.6	48.0	50.4	51.6	56.4	60.0	64.8	68.4
87.5°	12.0	13.2	14.4	16.8	21.6	22.8	25.2	30.0	33.6	38.4	42.0
90°	1.2	1.2	2.4	3.6	6.0	7.2	9.6	12.0	15.6	19.2	21.6
92.5°	8.4	8.4	9.6	9.6	9.6	9.6	9.6	10.8	12.0	14.4	15.6
95°	20.4	32.4	19.2	18.0	20.4	20.4	21.6	20.4	20.4	20.4	20.4
97.5°	33.6	60.0	39.6	27.6	26.4	27.6	27.6	30.0	31.2	32.4	32.4
100°	49.2	75.7	69.6	45.6	37.2	36.0	36.0	36.0	37.2	38.4	39.6
102.5°	64.8	86.5	99.7	70.8	52.8	48.0	45.6	44.4	43.2	44.4	44.4
105°	80.5	97.3	122.5	96.1	75.7	68.4	61.2	52.8	51.6	51.6	51.6
107.5°	94.9	108.1	139.3	124.9	98.5	91.3	82.9	69.6	61.2	60.0	58.8
110°	108.1	118.9	151.3	148.9	123.7	112.9	105.7	91.3	79.3	70.8	67.2



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	120.1	129.7	159.7	169.3	151.3	138.1	127.3	112.9	99.7	88.9	80.5
115°	132.1	140.5	166.9	186.1	175.3	164.5	152.5	134.5	121.3	110.5	100.9
117.5°	144.1	151.3	174.1	198.1	195.7	188.5	178.9	157.3	141.7	130.9	120.1
120°	154.9	162.1	181.3	206.5	213.8	207.7	201.7	182.5	163.3	151.3	141.7
122.5°	164.5	170.5	188.5	213.8	227.0	225.8	219.8	206.5	187.3	172.9	160.9
125°	174.1	180.1	195.7	218.6	236.6	240.2	237.8	227.0	212.5	195.7	181.3
127.5°	183.7	188.5	202.9	223.4	243.8	251.0	252.2	245.0	234.2	219.8	204.1
130°	192.1	196.9	208.9	227.0	248.6	257.0	261.8	260.6	252.2	242.6	227.0
132.5°	199.3	202.9	215.0	230.6	251.0	260.6	267.8	273.8	267.8	260.6	249.8
135°	206.5	210.1	219.8	234.2	252.2	261.8	271.4	281.0	282.2	276.2	267.8
137.5°	212.5	215.0	224.6	236.6	252.2	261.8	271.4	284.6	291.8	289.4	282.2
140°	218.6	221.0	228.2	240.2	253.4	261.8	270.2	285.8	295.4	299.0	295.4
142.5°	223.4	225.8	231.8	242.6	253.4	260.6	269.0	283.4	296.6	303.8	306.2
145°	228.2	229.4	235.4	243.8	253.4	259.4	266.6	281.0	294.2	305.0	312.2
147.5°	231.8	233.0	236.6	245.0	253.4	258.2	264.2	276.2	289.4	301.4	312.2
150°	235.4	235.4	239.0	245.0	253.4	257.0	261.8	272.6	283.4	295.4	305.0
152.5°	237.8	237.8	241.4	246.2	252.2	255.8	260.6	269.0	278.6	289.4	299.0
155°	240.2	240.2	242.6	246.2	252.2	254.6	258.2	265.4	273.8	282.2	290.6
157.5°	242.6	242.6	243.8	247.4	251.0	253.4	257.0	263.0	269.0	276.2	283.4
160°	243.8	243.8	245.0	247.4	249.8	252.2	254.6	259.4	265.4	270.2	276.2
162.5°	245.0	245.0	246.2	247.4	249.8	251.0	252.2	257.0	260.6	265.4	270.2
165°	246.2	246.2	246.2	247.4	248.6	249.8	251.0	253.4	257.0	260.6	264.2
167.5°	247.4	247.4	247.4	247.4	248.6	248.6	249.8	251.0	253.4	255.8	258.2
170°	248.6	247.4	247.4	248.6	247.4	247.4	248.6	249.8	249.8	252.2	253.4
172.5°	248.6	248.6	247.4	247.4	247.4	247.4	247.4	247.4	247.4	248.6	249.8
175°	248.6	248.6	247.4	247.4	247.4	246.2	246.2	246.2	246.2	246.2	246.2
177.5°	248.6	248.6	247.4	247.4	246.2	246.2	246.2	246.2	246.2	246.2	246.2
180°	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4	1419.4
2.5°	1429.0	1423.0	1420.6	1419.4	1418.2	1417.0	1414.6	1412.2	1409.8	1409.8
5°	1423.0	1417.0	1414.6	1413.4	1412.2	1411.0	1409.8	1409.8	1409.8	1409.8
7.5°	1413.4	1407.4	1405.0	1403.8	1403.8	1402.6	1402.6	1402.6	1401.4	1402.6
10°	1399.0	1393.0	1391.8	1390.6	1389.4	1387.0	1387.0	1387.0	1385.8	1387.0
12.5°	1381.0	1375.0	1373.8	1372.6	1371.4	1370.2	1370.2	1369.0	1369.0	1370.2
15°	1363.0	1354.6	1352.1	1352.1	1350.9	1349.7	1350.9	1349.7	1349.7	1349.7
17.5°	1336.5	1332.9	1329.3	1326.9	1325.7	1324.5	1324.5	1323.3	1323.3	1323.3
20°	1301.7	1301.7	1301.7	1295.7	1294.5	1293.3	1293.3	1293.3	1293.3	1293.3
22.5°	1268.1	1262.1	1266.9	1263.3	1260.9	1258.5	1259.7	1259.7	1259.7	1259.7
25°	1230.9	1226.1	1227.3	1228.5	1226.1	1222.5	1222.5	1222.5	1222.5	1221.3
27.5°	1191.2	1187.6	1186.4	1187.6	1190.0	1187.6	1184.0	1180.4	1181.6	1181.6
30°	1148.0	1146.8	1145.6	1143.2	1145.6	1146.8	1140.8	1139.6	1139.6	1139.6
32.5°	1104.8	1103.6	1100.0	1097.6	1098.8	1101.2	1098.8	1096.4	1096.4	1096.4
35°	1061.5	1056.7	1053.1	1051.9	1051.9	1054.3	1053.1	1049.5	1049.5	1049.5
37.5°	1011.1	1012.3	1006.3	1005.1	1005.1	1005.1	1007.5	1001.5	1002.7	1001.5
40°	961.9	963.1	959.5	955.9	957.1	954.7	958.3	952.3	952.3	952.3
42.5°	912.6	910.2	911.4	904.2	905.4	905.4	906.6	903.0	901.8	900.6
45°	862.2	859.8	858.6	855.0	855.0	853.8	853.8	849.0	849.0	849.0
47.5°	809.4	808.2	805.8	803.4	803.4	802.2	799.8	798.6	797.4	797.4
50°	758.9	755.3	751.7	752.9	751.7	750.5	748.1	746.9	745.7	744.5
52.5°	704.9	704.9	700.1	700.1	700.1	698.9	696.5	694.1	694.1	692.9
55°	652.1	650.9	647.3	646.1	647.3	646.1	643.7	641.3	641.3	640.0
57.5°	599.2	596.8	595.6	595.6	594.4	594.4	590.8	588.4	589.6	588.4
60°	545.2	545.2	544.0	542.8	542.8	541.6	538.0	538.0	538.0	536.8
62.5°	493.5	493.5	491.1	489.9	491.1	489.9	488.7	487.5	486.3	485.1
65°	439.5	440.7	438.3	439.5	439.5	437.1	437.1	435.9	435.9	434.7
67.5°	389.1	389.1	387.9	387.9	389.1	387.9	387.9	386.7	386.7	385.5
70°	337.4	339.8	338.6	338.6	338.6	337.4	337.4	337.4	336.2	337.4
72.5°	285.8	285.8	285.8	285.8	285.8	287.0	287.0	287.0	287.0	285.8
75°	237.8	239.0	237.8	239.0	240.2	240.2	240.2	240.2	241.4	240.2
77.5°	190.9	192.1	192.1	194.5	194.5	194.5	195.7	195.7	195.7	195.7
80°	146.5	147.7	148.9	151.3	151.3	153.7	154.9	154.9	154.9	154.9
82.5°	105.7	109.3	110.5	114.1	115.3	115.3	117.7	118.9	118.9	118.9
85°	73.3	76.9	79.3	81.7	84.1	84.1	86.5	86.5	87.7	87.7
87.5°	45.6	49.2	51.6	55.2	56.4	57.6	58.8	60.0	61.2	61.2
90°	25.2	27.6	30.0	32.4	32.4	33.6	34.8	36.0	37.2	37.2
92.5°	18.0	19.2	21.6	22.8	22.8	24.0	25.2	25.2	26.4	26.4
95°	20.4	21.6	21.6	22.8	22.8	22.8	24.0	24.0	24.0	24.0
97.5°	31.2	31.2	31.2	30.0	30.0	30.0	30.0	30.0	30.0	30.0
100°	40.8	42.0	42.0	42.0	43.2	43.2	43.2	43.2	42.0	42.0
102.5°	45.6	46.8	48.0	49.2	49.2	49.2	50.4	50.4	50.4	50.4
105°	51.6	51.6	52.8	54.0	54.0	54.0	55.2	55.2	55.2	55.2
107.5°	58.8	58.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
110°	67.2	67.2	67.2	66.0	67.2	66.0	66.0	66.0	66.0	66.0



TEST NUMBER: P395882

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	76.9	75.7	75.7	74.5	74.5	74.5	73.3	73.3	73.3	73.3
115°	92.5	86.5	84.1	81.7	81.7	81.7	80.5	80.5	80.5	80.5
117.5°	111.7	103.3	98.5	93.7	92.5	91.3	88.9	88.9	87.7	87.7
120°	132.1	123.7	116.5	110.5	108.1	106.9	103.3	100.9	98.5	98.5
122.5°	151.3	142.9	135.7	129.7	127.3	124.9	121.3	118.9	116.5	116.5
125°	170.5	162.1	154.9	148.9	145.3	142.9	139.3	136.9	134.5	134.5
127.5°	190.9	180.1	172.9	166.9	163.3	162.1	157.3	154.9	152.5	152.5
130°	213.8	200.5	190.9	183.7	181.3	178.9	175.3	172.9	170.5	170.5
132.5°	236.6	223.4	212.5	202.9	199.3	196.9	192.1	189.7	187.3	187.3
135°	258.2	246.2	235.4	225.8	222.2	218.6	213.8	208.9	206.5	206.5
137.5°	275.0	266.6	257.0	248.6	245.0	241.4	236.6	231.8	228.2	229.4
140°	289.4	282.2	276.2	270.2	266.6	264.2	259.4	255.8	252.2	252.2
142.5°	302.6	296.6	290.6	285.8	284.6	283.4	279.8	276.2	273.8	273.8
145°	314.6	311.0	306.2	300.2	299.0	297.8	294.2	291.8	290.6	290.6
147.5°	318.2	319.4	318.2	314.6	313.4	312.2	309.8	307.4	306.2	306.2
150°	315.8	320.6	323.0	323.0	323.0	323.0	323.0	320.6	319.4	319.4
152.5°	308.6	315.8	320.6	324.2	325.4	326.6	326.6	327.8	326.6	326.6
155°	300.2	307.4	314.6	318.2	320.6	321.8	324.2	325.4	326.6	325.4
157.5°	290.6	296.6	301.4	308.6	311.0	313.4	315.8	318.2	319.4	318.2
160°	282.2	287.0	290.6	295.4	296.6	299.0	301.4	302.6	305.0	303.8
162.5°	273.8	277.4	281.0	283.4	285.8	287.0	289.4	290.6	291.8	290.6
165°	267.8	270.2	271.4	273.8	275.0	276.2	277.4	278.6	278.6	278.6
167.5°	260.6	263.0	264.2	265.4	266.6	267.8	267.8	269.0	269.0	269.0
170°	254.6	255.8	257.0	258.2	258.2	259.4	259.4	259.4	260.6	259.4
172.5°	249.8	249.8	249.8	251.0	251.0	251.0	251.0	251.0	251.0	249.8
175°	247.4	247.4	246.2	246.2	246.2	246.2	246.2	245.0	243.8	242.6
177.5°	246.2	245.0	245.0	243.8	243.8	243.8	242.6	241.4	240.2	239.0
180°	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0

(END OF REPORT)