

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: P395885

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395885
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 (5000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4957.5 lumens
Efficiency: N/A
Efficacy: 95.5 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

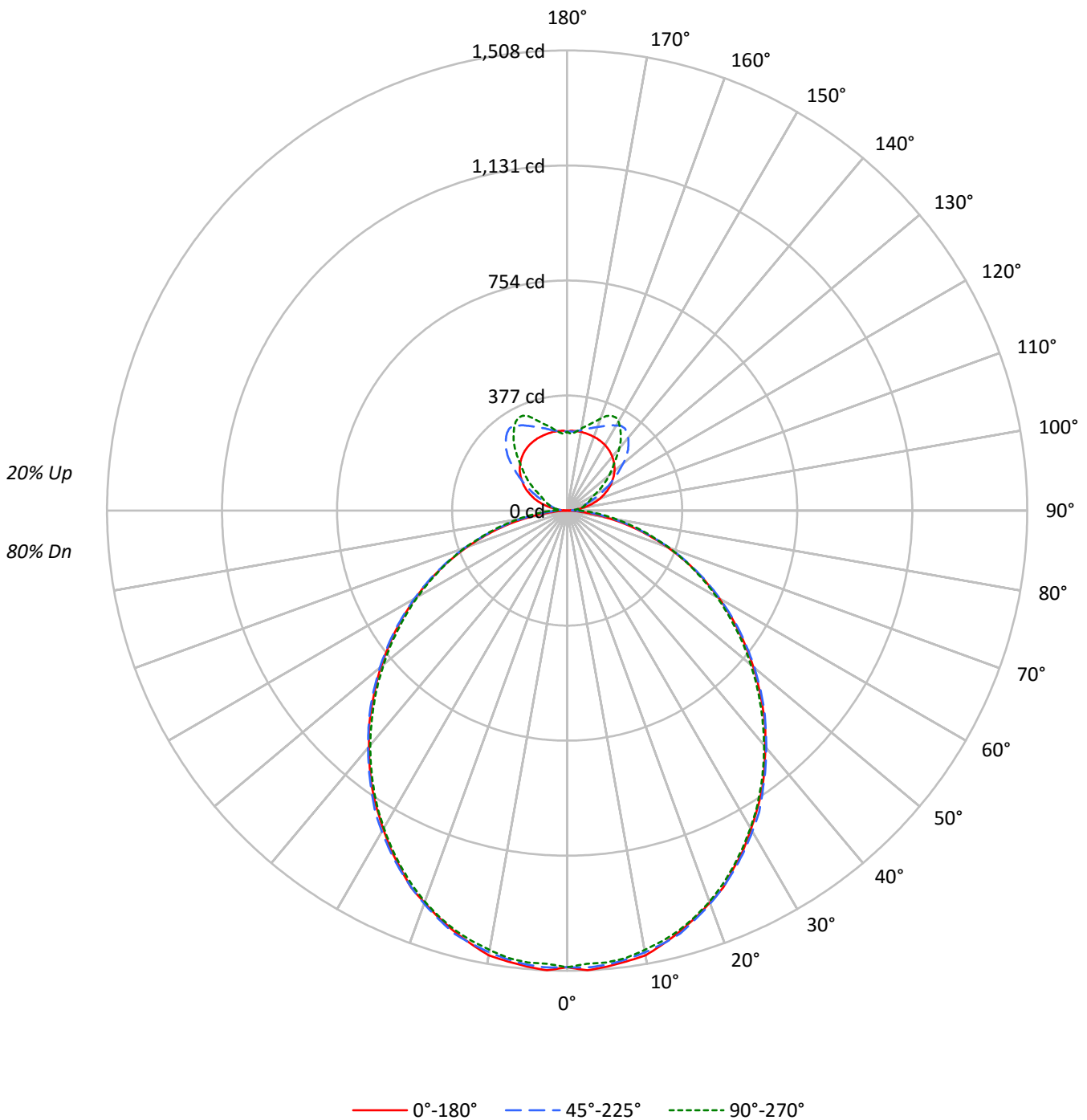
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8225	8225	8225
5°	8247	8055	7968
10°	8198	7836	7708
15°	8034	7620	7433
20°	7876	7312	7112
25°	7687	7002	6758
30°	7466	6680	6394
35°	7259	6324	6020
40°	6999	5956	5629
45°	6749	5597	5218
50°	6481	5204	4803
55°	6199	4801	4381
60°	5885	4355	3944
65°	5523	3869	3476
70°	5009	3304	2984
75°	4316	2618	2396
80°	3292	1886	1788
85°	1718	1128	1211



TEST NUMBER: P395885

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	2.9
10°-20°	401.0	8.1
20°-30°	593.8	12.0
30°-40°	694.0	14.0
40°-50°	697.1	14.1
50°-60°	612.7	12.4
60°-70°	459.0	9.3
70°-80°	261.1	5.3
80°-90°	82.4	1.7
90°-100°	29.7	0.6
100°-110°	72.4	1.5
110°-120°	120.3	2.4
120°-130°	168.7	3.4
130°-140°	194.5	3.9
140°-150°	185.7	3.7
150°-160°	139.7	2.8
160°-170°	79.0	1.6
170°-180°	25.0	0.5
0°-30°	1136.2	22.9
0°-40°	1830.1	36.9
0°-60°	3139.9	63.3
0°-90°	3942.4	79.5
90°-120°	222.4	4.5
90°-150°	771.4	15.6
90°-180°	1015.0	20.5
0°-180°	4957.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1500	1485	1494	1489	1486	142
15°	1428	1415	1434	1424	1423	403
25°	1293	1289	1298	1293	1288	596
35°	1114	1105	1118	1109	1106	695
45°	905	904	912	901	895	699
55°	686	689	691	682	675	613
65°	463	465	467	463	458	458
75°	236	239	246	253	253	249
85°	40	53	72	89	92	53
90°	1	8	23	34	39	3
95°	22	22	22	24	25	24
105°	85	72	54	57	58	89
115°	139	173	106	86	85	138
125°	184	253	191	153	142	164
135°	218	276	282	234	218	168
145°	240	274	329	315	306	150
155°	253	268	306	338	343	117
165°	260	263	278	290	294	73
175°	262	260	260	260	256	25
180°	258	258	258	258	258	



TEST NUMBER: P395885

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4
2.5°	1507.8	1505.3	1498.9	1492.6	1491.3	1490.1	1490.1	1488.8	1488.8	1491.3	1498.9
5°	1500.2	1498.9	1492.6	1486.3	1485.0	1485.0	1483.7	1483.7	1483.7	1486.3	1493.9
7.5°	1490.1	1487.5	1481.2	1474.9	1473.6	1473.6	1473.6	1472.3	1473.6	1474.9	1483.7
10°	1479.9	1478.7	1472.3	1464.7	1462.2	1462.2	1460.9	1458.4	1458.4	1460.9	1469.8
12.5°	1454.6	1453.4	1447.0	1442.0	1442.0	1443.2	1443.2	1444.5	1444.5	1447.0	1453.4
15°	1428.0	1426.8	1420.4	1415.4	1415.4	1415.4	1414.1	1414.1	1415.4	1423.0	1434.4
17.5°	1398.9	1397.6	1392.6	1387.5	1387.5	1387.5	1386.3	1386.3	1387.5	1391.3	1402.7
20°	1367.3	1366.0	1360.9	1355.9	1355.9	1355.9	1354.6	1355.9	1355.9	1360.9	1371.1
22.5°	1336.9	1334.3	1328.0	1323.0	1320.4	1320.4	1320.4	1319.2	1321.7	1325.5	1335.6
25°	1292.6	1291.3	1288.8	1285.0	1287.5	1288.8	1286.2	1283.7	1283.7	1288.8	1297.6
27.5°	1252.1	1249.5	1245.7	1241.9	1239.4	1240.7	1241.9	1244.5	1248.3	1249.5	1257.1
30°	1205.2	1204.0	1200.2	1195.1	1196.4	1197.6	1197.6	1197.6	1200.2	1211.5	1214.1
32.5°	1159.6	1158.4	1154.6	1149.5	1150.8	1152.0	1150.8	1152.0	1154.6	1159.6	1171.0
35°	1114.1	1111.5	1107.7	1106.5	1105.2	1105.2	1105.2	1106.5	1107.7	1111.5	1117.9
37.5°	1062.2	1059.6	1057.1	1053.3	1055.8	1058.4	1059.6	1058.4	1059.6	1064.7	1067.2
40°	1010.3	1009.0	1006.5	1003.9	1005.2	1006.5	1005.2	1009.0	1011.5	1014.1	1015.3
42.5°	960.9	958.4	955.8	954.6	954.6	955.8	955.8	958.4	958.4	964.7	963.4
45°	905.2	903.9	902.6	902.6	903.9	903.9	903.9	905.2	906.4	910.2	911.5
47.5°	850.7	849.5	849.5	849.5	849.5	850.7	852.0	855.8	853.3	854.5	855.8
50°	796.3	795.0	795.0	795.0	797.6	797.6	800.1	801.4	802.6	800.1	801.4
52.5°	740.6	739.3	741.9	741.9	744.4	744.4	748.2	744.4	746.9	745.7	745.7
55°	686.2	684.9	687.4	686.2	688.7	688.7	691.2	692.5	691.2	691.2	691.2
57.5°	630.5	629.2	630.5	631.7	633.0	633.0	636.8	636.8	633.0	635.5	634.3
60°	574.8	573.5	574.8	576.0	577.3	577.3	578.6	576.0	578.6	579.8	578.6
62.5°	519.1	517.8	520.3	519.1	520.3	521.6	521.6	525.4	524.1	524.1	522.9
65°	463.4	462.1	462.1	462.1	463.4	464.6	465.9	467.1	467.1	468.4	467.1
67.5°	406.4	405.1	406.4	405.1	406.4	407.6	410.2	411.4	411.4	412.7	411.4
70°	348.1	349.4	348.1	349.4	350.7	351.9	353.2	355.7	355.7	355.7	355.7
72.5°	291.2	289.9	289.9	288.6	291.2	292.4	293.7	297.5	297.5	298.8	298.8
75°	235.5	232.9	234.2	232.9	238.0	239.3	239.3	243.1	244.3	246.9	245.6
77.5°	181.0	181.0	178.5	182.3	183.6	186.1	188.6	191.2	192.4	196.2	196.2
80°	129.1	129.1	127.9	130.4	135.5	136.7	140.5	141.8	145.6	148.1	149.4
82.5°	82.3	82.3	82.3	86.1	89.9	91.2	94.9	98.7	101.3	105.1	106.3
85°	40.5	43.0	43.0	48.1	50.6	53.2	54.4	59.5	63.3	68.4	72.2
87.5°	12.7	13.9	15.2	17.7	22.8	24.1	26.6	31.6	35.4	40.5	44.3
90°	1.3	1.3	2.5	3.8	6.3	7.6	10.1	12.7	16.5	20.3	22.8
92.5°	8.9	8.9	10.1	10.1	10.1	10.1	10.1	11.4	12.7	15.2	16.5
95°	21.5	34.2	20.3	19.0	21.5	21.5	22.8	21.5	21.5	21.5	21.5
97.5°	35.4	63.3	41.8	29.1	27.9	29.1	29.1	31.6	32.9	34.2	34.2
100°	51.9	79.8	73.4	48.1	39.2	38.0	38.0	38.0	39.2	40.5	41.8
102.5°	68.4	91.2	105.1	74.7	55.7	50.6	48.1	46.8	45.6	46.8	46.8
105°	84.8	102.5	129.1	101.3	79.8	72.2	64.6	55.7	54.4	54.4	54.4
107.5°	100.0	113.9	146.9	131.7	103.8	96.2	87.4	73.4	64.6	63.3	62.0
110°	113.9	125.3	159.5	157.0	130.4	119.0	111.4	96.2	83.6	74.7	70.9



TEST NUMBER: P395885

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	126.6	136.7	168.4	178.5	159.5	145.6	134.2	119.0	105.1	93.7	84.8
115°	139.3	148.1	176.0	196.2	184.8	173.4	160.8	141.8	127.9	116.5	106.3
117.5°	151.9	159.5	183.6	208.9	206.4	198.8	188.6	165.8	149.4	138.0	126.6
120°	163.3	170.9	191.2	217.7	225.3	219.0	212.7	192.4	172.2	159.5	149.4
122.5°	173.4	179.8	198.8	225.3	239.3	238.0	231.7	217.7	197.5	182.3	169.6
125°	183.6	189.9	206.4	230.4	249.4	253.2	250.7	239.3	224.1	206.4	191.2
127.5°	193.7	198.8	214.0	235.5	257.0	264.6	265.9	258.3	246.9	231.7	215.2
130°	202.6	207.6	220.3	239.3	262.1	270.9	276.0	274.7	265.9	255.7	239.3
132.5°	210.2	214.0	226.6	243.1	264.6	274.7	282.3	288.6	282.3	274.7	263.3
135°	217.7	221.5	231.7	246.9	265.9	276.0	286.1	296.2	297.5	291.2	282.3
137.5°	224.1	226.6	236.7	249.4	265.9	276.0	286.1	300.0	307.6	305.1	297.5
140°	230.4	232.9	240.5	253.2	267.1	276.0	284.8	301.3	311.4	315.2	311.4
142.5°	235.5	238.0	244.3	255.7	267.1	274.7	283.6	298.8	312.7	320.3	322.8
145°	240.5	241.8	248.1	257.0	267.1	273.5	281.0	296.2	310.2	321.6	329.2
147.5°	244.3	245.6	249.4	258.3	267.1	272.2	278.5	291.2	305.1	317.8	329.2
150°	248.1	248.1	251.9	258.3	267.1	270.9	276.0	287.4	298.8	311.4	321.6
152.5°	250.7	250.7	254.5	259.5	265.9	269.7	274.7	283.6	293.7	305.1	315.2
155°	253.2	253.2	255.7	259.5	265.9	268.4	272.2	279.8	288.6	297.5	306.4
157.5°	255.7	255.7	257.0	260.8	264.6	267.1	270.9	277.3	283.6	291.2	298.8
160°	257.0	257.0	258.3	260.8	263.3	265.9	268.4	273.5	279.8	284.8	291.2
162.5°	258.3	258.3	259.5	260.8	263.3	264.6	265.9	270.9	274.7	279.8	284.8
165°	259.5	259.5	259.5	260.8	262.1	263.3	264.6	267.1	270.9	274.7	278.5
167.5°	260.8	260.8	260.8	260.8	262.1	262.1	263.3	264.6	267.1	269.7	272.2
170°	262.1	260.8	260.8	262.1	260.8	260.8	262.1	263.3	263.3	265.9	267.1
172.5°	262.1	262.1	260.8	260.8	260.8	260.8	260.8	260.8	260.8	262.1	263.3
175°	262.1	262.1	260.8	260.8	260.8	259.5	259.5	259.5	259.5	259.5	259.5
177.5°	262.1	262.1	260.8	260.8	259.5	259.5	259.5	259.5	259.5	259.5	259.5
180°	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3



TEST NUMBER: P395885

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4	1496.4
2.5°	1506.5	1500.2	1497.7	1496.4	1495.1	1493.9	1491.3	1488.8	1486.3	1486.3
5°	1500.2	1493.9	1491.3	1490.1	1488.8	1487.5	1486.3	1486.3	1486.3	1486.3
7.5°	1490.1	1483.7	1481.2	1479.9	1479.9	1478.7	1478.7	1478.7	1477.4	1478.7
10°	1474.9	1468.5	1467.3	1466.0	1464.7	1462.2	1462.2	1462.2	1460.9	1462.2
12.5°	1455.9	1449.6	1448.3	1447.0	1445.8	1444.5	1444.5	1443.2	1443.2	1444.5
15°	1436.9	1428.0	1425.5	1425.5	1424.2	1423.0	1424.2	1423.0	1423.0	1423.0
17.5°	1409.0	1405.2	1401.4	1398.9	1397.6	1396.4	1396.4	1395.1	1395.1	1395.1
20°	1372.3	1372.3	1372.3	1366.0	1364.7	1363.5	1363.5	1363.5	1363.5	1363.5
22.5°	1336.9	1330.6	1335.6	1331.8	1329.3	1326.8	1328.0	1328.0	1328.0	1328.0
25°	1297.6	1292.6	1293.8	1295.1	1292.6	1288.8	1288.8	1288.8	1288.8	1287.5
27.5°	1255.9	1252.1	1250.8	1252.1	1254.6	1252.1	1248.3	1244.5	1245.7	1245.7
30°	1210.3	1209.0	1207.8	1205.2	1207.8	1209.0	1202.7	1201.4	1201.4	1201.4
32.5°	1164.7	1163.4	1159.6	1157.1	1158.4	1160.9	1158.4	1155.8	1155.8	1155.8
35°	1119.1	1114.1	1110.3	1109.0	1109.0	1111.5	1110.3	1106.5	1106.5	1106.5
37.5°	1066.0	1067.2	1060.9	1059.6	1059.6	1059.6	1062.2	1055.8	1057.1	1055.8
40°	1014.1	1015.3	1011.5	1007.7	1009.0	1006.5	1010.3	1003.9	1003.9	1003.9
42.5°	962.1	959.6	960.9	953.3	954.6	954.6	955.8	952.0	950.8	949.5
45°	909.0	906.4	905.2	901.4	901.4	900.1	900.1	895.1	895.1	895.1
47.5°	853.3	852.0	849.5	846.9	846.9	845.7	843.1	841.9	840.6	840.6
50°	800.1	796.3	792.5	793.8	792.5	791.2	788.7	787.4	786.2	784.9
52.5°	743.1	743.1	738.1	738.1	738.1	736.8	734.3	731.7	731.7	730.5
55°	687.4	686.2	682.4	681.1	682.4	681.1	678.6	676.0	676.0	674.8
57.5°	631.7	629.2	627.9	627.9	626.7	626.7	622.9	620.3	621.6	620.3
60°	574.8	574.8	573.5	572.2	572.2	571.0	567.2	567.2	567.2	565.9
62.5°	520.3	520.3	517.8	516.5	517.8	516.5	515.3	514.0	512.7	511.5
65°	463.4	464.6	462.1	463.4	463.4	460.8	460.8	459.6	459.6	458.3
67.5°	410.2	410.2	408.9	408.9	410.2	408.9	408.9	407.6	407.6	406.4
70°	355.7	358.3	357.0	357.0	357.0	355.7	355.7	355.7	354.5	355.7
72.5°	301.3	301.3	301.3	301.3	301.3	302.6	302.6	302.6	302.6	301.3
75°	250.7	251.9	250.7	251.9	253.2	253.2	253.2	253.2	254.5	253.2
77.5°	201.3	202.6	202.6	205.1	205.1	205.1	206.4	206.4	206.4	206.4
80°	154.5	155.7	157.0	159.5	159.5	162.0	163.3	163.3	163.3	163.3
82.5°	111.4	115.2	116.5	120.3	121.5	121.5	124.1	125.3	125.3	125.3
85°	77.2	81.0	83.6	86.1	88.6	88.6	91.2	91.2	92.4	92.4
87.5°	48.1	51.9	54.4	58.2	59.5	60.8	62.0	63.3	64.6	64.6
90°	26.6	29.1	31.6	34.2	34.2	35.4	36.7	38.0	39.2	39.2
92.5°	19.0	20.3	22.8	24.1	24.1	25.3	26.6	26.6	27.9	27.9
95°	21.5	22.8	22.8	24.1	24.1	24.1	25.3	25.3	25.3	25.3
97.5°	32.9	32.9	32.9	31.6	31.6	31.6	31.6	31.6	31.6	31.6
100°	43.0	44.3	44.3	44.3	45.6	45.6	45.6	45.6	44.3	44.3
102.5°	48.1	49.4	50.6	51.9	51.9	51.9	53.2	53.2	53.2	53.2
105°	54.4	54.4	55.7	57.0	57.0	57.0	58.2	58.2	58.2	58.2
107.5°	62.0	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
110°	70.9	70.9	70.9	69.6	70.9	69.6	69.6	69.6	69.6	69.6



TEST NUMBER: P395885

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	81.0	79.8	79.8	78.5	78.5	78.5	77.2	77.2	77.2	77.2
115°	97.5	91.2	88.6	86.1	86.1	86.1	84.8	84.8	84.8	84.8
117.5°	117.7	108.9	103.8	98.7	97.5	96.2	93.7	93.7	92.4	92.4
120°	139.3	130.4	122.8	116.5	113.9	112.7	108.9	106.3	103.8	103.8
122.5°	159.5	150.7	143.1	136.7	134.2	131.7	127.9	125.3	122.8	122.8
125°	179.8	170.9	163.3	157.0	153.2	150.7	146.9	144.3	141.8	141.8
127.5°	201.3	189.9	182.3	176.0	172.2	170.9	165.8	163.3	160.8	160.8
130°	225.3	211.4	201.3	193.7	191.2	188.6	184.8	182.3	179.8	179.8
132.5°	249.4	235.5	224.1	214.0	210.2	207.6	202.6	200.0	197.5	197.5
135°	272.2	259.5	248.1	238.0	234.2	230.4	225.3	220.3	217.7	217.7
137.5°	289.9	281.0	270.9	262.1	258.3	254.5	249.4	244.3	240.5	241.8
140°	305.1	297.5	291.2	284.8	281.0	278.5	273.5	269.7	265.9	265.9
142.5°	319.0	312.7	306.4	301.3	300.0	298.8	295.0	291.2	288.6	288.6
145°	331.7	327.9	322.8	316.5	315.2	314.0	310.2	307.6	306.4	306.4
147.5°	335.5	336.8	335.5	331.7	330.4	329.2	326.6	324.1	322.8	322.8
150°	333.0	338.0	340.6	340.6	340.6	340.6	340.6	338.0	336.8	336.8
152.5°	325.4	333.0	338.0	341.8	343.1	344.3	344.3	345.6	344.3	344.3
155°	316.5	324.1	331.7	335.5	338.0	339.3	341.8	343.1	344.3	343.1
157.5°	306.4	312.7	317.8	325.4	327.9	330.4	333.0	335.5	336.8	335.5
160°	297.5	302.6	306.4	311.4	312.7	315.2	317.8	319.0	321.6	320.3
162.5°	288.6	292.4	296.2	298.8	301.3	302.6	305.1	306.4	307.6	306.4
165°	282.3	284.8	286.1	288.6	289.9	291.2	292.4	293.7	293.7	293.7
167.5°	274.7	277.3	278.5	279.8	281.0	282.3	282.3	283.6	283.6	283.6
170°	268.4	269.7	270.9	272.2	272.2	273.5	273.5	273.5	274.7	273.5
172.5°	263.3	263.3	263.3	264.6	264.6	264.6	264.6	264.6	264.6	263.3
175°	260.8	260.8	259.5	259.5	259.5	259.5	259.5	258.3	257.0	255.7
177.5°	259.5	258.3	258.3	257.0	257.0	257.0	255.7	254.5	253.2	251.9
180°	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3	258.3

(END OF REPORT)