

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: P395883

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395883
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 (4000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4803.5 lumens
Efficiency: N/A
Efficacy: 93.6 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

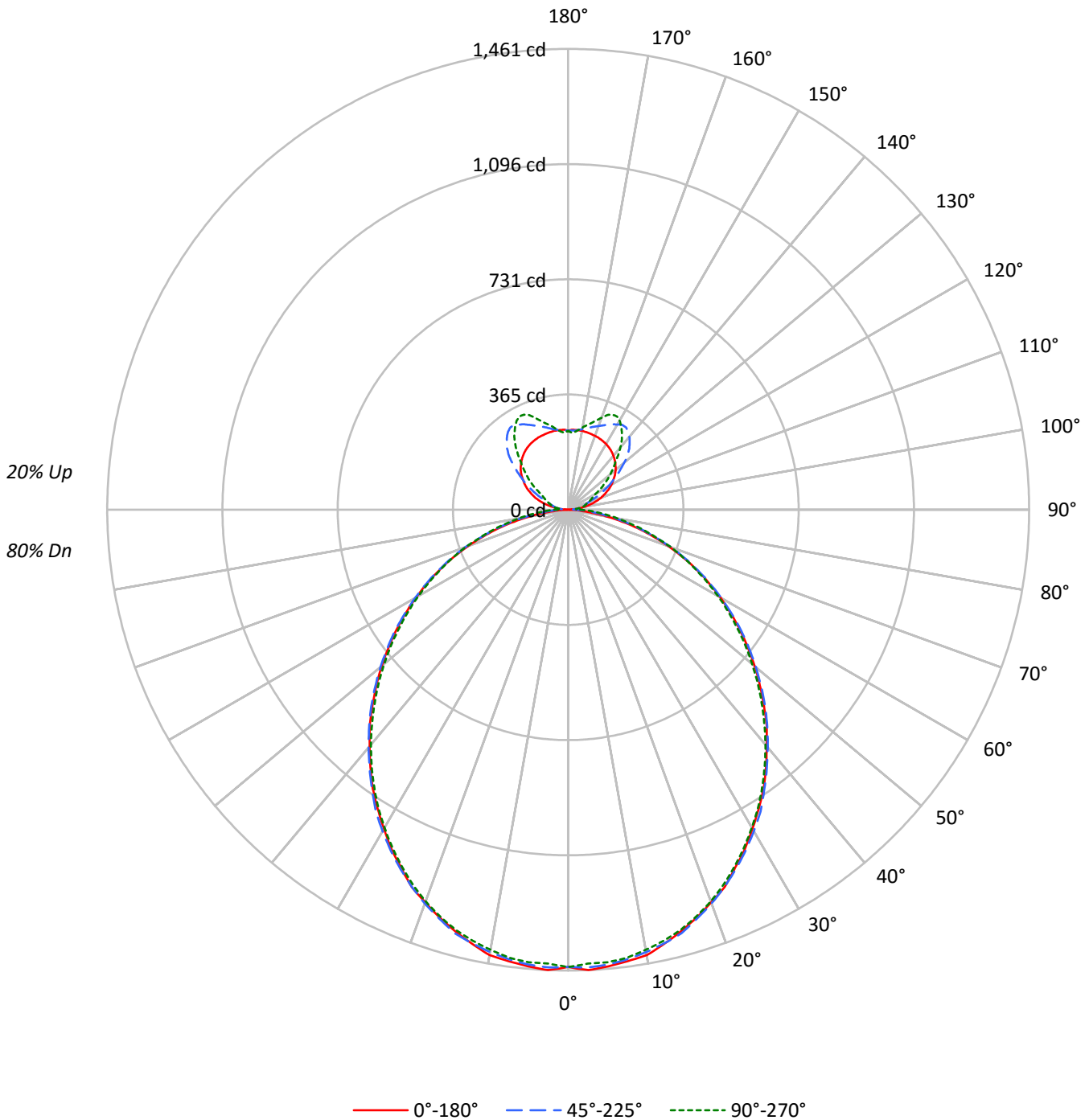
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7969	7969	7969
5°	7990	7805	7721
10°	7944	7592	7469
15°	7785	7383	7203
20°	7631	7085	6891
25°	7448	6784	6548
30°	7234	6473	6196
35°	7034	6127	5832
40°	6782	5772	5454
45°	6540	5424	5056
50°	6279	5043	4654
55°	6006	4653	4245
60°	5702	4220	3821
65°	5351	3749	3367
70°	4853	3202	2891
75°	4182	2537	2321
80°	3190	1827	1732
85°	1667	1092	1173



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.9
10°-20°	388.6	8.1
20°-30°	575.3	12.0
30°-40°	672.4	14.0
40°-50°	675.4	14.1
50°-60°	593.6	12.4
60°-70°	444.8	9.3
70°-80°	253.0	5.3
80°-90°	79.9	1.7
90°-100°	28.8	0.6
100°-110°	70.1	1.5
110°-120°	116.6	2.4
120°-130°	163.5	3.4
130°-140°	188.5	3.9
140°-150°	180.0	3.7
150°-160°	135.3	2.8
160°-170°	76.6	1.6
170°-180°	24.3	0.5
0°-30°	1100.9	22.9
0°-40°	1773.3	36.9
0°-60°	3042.3	63.3
0°-90°	3819.9	79.5
90°-120°	215.5	4.5
90°-150°	747.4	15.6
90°-180°	984.0	20.5
0°-180°	4803.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1454	1439	1448	1442	1440	138
15°	1384	1371	1390	1380	1379	390
25°	1252	1249	1257	1252	1248	577
35°	1080	1071	1083	1074	1072	674
45°	877	876	883	873	867	677
55°	665	667	670	661	654	594
65°	449	450	453	449	444	444
75°	228	232	238	245	245	242
85°	39	52	70	86	90	51
90°	1	7	22	33	38	3
95°	21	21	21	23	24	23
105°	82	70	53	55	56	86
115°	135	168	103	83	82	133
125°	178	245	185	148	137	159
135°	211	267	274	227	211	163
145°	233	265	319	305	297	146
155°	245	260	297	328	332	113
165°	252	255	270	281	285	71
175°	254	252	252	252	248	24
180°	250	250	250	250	250	



TEST NUMBER: P395883

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9
2.5°	1460.9	1458.5	1452.4	1446.2	1445.0	1443.8	1443.8	1442.5	1442.5	1445.0	1452.4
5°	1453.6	1452.4	1446.2	1440.1	1438.9	1438.9	1437.6	1437.6	1437.6	1440.1	1447.5
7.5°	1443.8	1441.3	1435.2	1429.1	1427.8	1427.8	1427.8	1426.6	1427.8	1429.1	1437.6
10°	1434.0	1432.7	1426.6	1419.2	1416.8	1416.8	1415.6	1413.1	1413.1	1415.6	1424.1
12.5°	1409.4	1408.2	1402.1	1397.2	1397.2	1398.4	1398.4	1399.6	1399.6	1402.1	1408.2
15°	1383.7	1382.4	1376.3	1371.4	1371.4	1371.4	1370.2	1370.2	1371.4	1378.8	1389.8
17.5°	1355.5	1354.2	1349.3	1344.4	1344.4	1344.4	1343.2	1343.2	1344.4	1348.1	1359.1
20°	1324.8	1323.6	1318.7	1313.7	1313.7	1313.7	1312.5	1313.7	1313.7	1318.7	1328.5
22.5°	1295.3	1292.9	1286.8	1281.9	1279.4	1279.4	1279.4	1278.2	1280.6	1284.3	1294.1
25°	1252.4	1251.2	1248.7	1245.1	1247.5	1248.7	1246.3	1243.8	1243.8	1248.7	1257.3
27.5°	1213.2	1210.7	1207.0	1203.3	1200.9	1202.1	1203.3	1205.8	1209.5	1210.7	1218.1
30°	1167.8	1166.5	1162.9	1158.0	1159.2	1160.4	1160.4	1160.4	1162.9	1173.9	1176.4
32.5°	1123.6	1122.4	1118.7	1113.8	1115.0	1116.3	1115.0	1116.3	1118.7	1123.6	1134.7
35°	1079.5	1077.0	1073.3	1072.1	1070.9	1070.9	1070.9	1072.1	1073.3	1077.0	1083.1
37.5°	1029.2	1026.7	1024.3	1020.6	1023.0	1025.5	1026.7	1025.5	1026.7	1031.6	1034.1
40°	978.9	977.6	975.2	972.7	974.0	975.2	974.0	977.6	980.1	982.5	983.8
42.5°	931.0	928.6	926.1	924.9	924.9	926.1	926.1	928.6	928.6	934.7	933.5
45°	877.1	875.8	874.6	874.6	875.8	875.8	875.8	877.1	878.3	882.0	883.2
47.5°	824.3	823.1	823.1	823.1	823.1	824.3	825.5	829.2	826.8	828.0	829.2
50°	771.6	770.3	770.3	770.3	772.8	772.8	775.2	776.5	777.7	775.2	776.5
52.5°	717.6	716.4	718.8	718.8	721.3	721.3	725.0	721.3	723.7	722.5	722.5
55°	664.8	663.6	666.1	664.8	667.3	667.3	669.8	671.0	669.8	669.8	669.8
57.5°	610.9	609.6	610.9	612.1	613.3	613.3	617.0	617.0	613.3	615.8	614.6
60°	556.9	555.7	556.9	558.1	559.4	559.4	560.6	558.1	560.6	561.8	560.6
62.5°	502.9	501.7	504.2	502.9	504.2	505.4	505.4	509.1	507.8	507.8	506.6
65°	449.0	447.7	447.7	447.7	449.0	450.2	451.4	452.6	452.6	453.9	452.6
67.5°	393.8	392.5	393.8	392.5	393.8	395.0	397.4	398.7	398.7	399.9	398.7
70°	337.3	338.6	337.3	338.6	339.8	341.0	342.2	344.7	344.7	344.7	344.7
72.5°	282.1	280.9	280.9	279.7	282.1	283.4	284.6	288.3	288.3	289.5	289.5
75°	228.2	225.7	226.9	225.7	230.6	231.8	231.8	235.5	236.7	239.2	238.0
77.5°	175.4	175.4	173.0	176.6	177.9	180.3	182.8	185.2	186.5	190.1	190.1
80°	125.1	125.1	123.9	126.3	131.3	132.5	136.2	137.4	141.1	143.5	144.7
82.5°	79.7	79.7	79.7	83.4	87.1	88.3	92.0	95.7	98.1	101.8	103.0
85°	39.3	41.7	41.7	46.6	49.1	51.5	52.7	57.7	61.3	66.2	69.9
87.5°	12.3	13.5	14.7	17.2	22.1	23.3	25.8	30.7	34.3	39.3	42.9
90°	1.2	1.2	2.5	3.7	6.1	7.4	9.8	12.3	15.9	19.6	22.1
92.5°	8.6	8.6	9.8	9.8	9.8	9.8	9.8	11.0	12.3	14.7	15.9
95°	20.9	33.1	19.6	18.4	20.9	20.9	22.1	20.9	20.9	20.9	20.9
97.5°	34.3	61.3	40.5	28.2	27.0	28.2	28.2	30.7	31.9	33.1	33.1
100°	50.3	77.3	71.1	46.6	38.0	36.8	36.8	36.8	38.0	39.3	40.5
102.5°	66.2	88.3	101.8	72.4	54.0	49.1	46.6	45.4	44.2	45.4	45.4
105°	82.2	99.4	125.1	98.1	77.3	69.9	62.6	54.0	52.7	52.7	52.7
107.5°	96.9	110.4	142.3	127.6	100.6	93.2	84.6	71.1	62.6	61.3	60.1
110°	110.4	121.4	154.6	152.1	126.3	115.3	107.9	93.2	81.0	72.4	68.7



TEST NUMBER: P395883

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	122.7	132.5	163.1	173.0	154.6	141.1	130.0	115.3	101.8	90.8	82.2
115°	134.9	143.5	170.5	190.1	179.1	168.1	155.8	137.4	123.9	112.9	103.0
117.5°	147.2	154.6	177.9	202.4	199.9	192.6	182.8	160.7	144.7	133.7	122.7
120°	158.2	165.6	185.2	211.0	218.3	212.2	206.1	186.5	166.8	154.6	144.7
122.5°	168.1	174.2	192.6	218.3	231.8	230.6	224.5	211.0	191.4	176.6	164.4
125°	177.9	184.0	199.9	223.3	241.7	245.3	242.9	231.8	217.1	199.9	185.2
127.5°	187.7	192.6	207.3	228.2	249.0	256.4	257.6	250.2	239.2	224.5	208.5
130°	196.3	201.2	213.4	231.8	253.9	262.5	267.4	266.2	257.6	247.8	231.8
132.5°	203.6	207.3	219.6	235.5	256.4	266.2	273.5	279.7	273.5	266.2	255.1
135°	211.0	214.7	224.5	239.2	257.6	267.4	277.2	287.0	288.3	282.1	273.5
137.5°	217.1	219.6	229.4	241.7	257.6	267.4	277.2	290.7	298.1	295.6	288.3
140°	223.3	225.7	233.1	245.3	258.8	267.4	276.0	291.9	301.8	305.4	301.8
142.5°	228.2	230.6	236.7	247.8	258.8	266.2	274.8	289.5	303.0	310.3	312.8
145°	233.1	234.3	240.4	249.0	258.8	265.0	272.3	287.0	300.5	311.6	318.9
147.5°	236.7	238.0	241.7	250.2	258.8	263.7	269.9	282.1	295.6	307.9	318.9
150°	240.4	240.4	244.1	250.2	258.8	262.5	267.4	278.5	289.5	301.8	311.6
152.5°	242.9	242.9	246.6	251.5	257.6	261.3	266.2	274.8	284.6	295.6	305.4
155°	245.3	245.3	247.8	251.5	257.6	260.1	263.7	271.1	279.7	288.3	296.9
157.5°	247.8	247.8	249.0	252.7	256.4	258.8	262.5	268.6	274.8	282.1	289.5
160°	249.0	249.0	250.2	252.7	255.1	257.6	260.1	265.0	271.1	276.0	282.1
162.5°	250.2	250.2	251.5	252.7	255.1	256.4	257.6	262.5	266.2	271.1	276.0
165°	251.5	251.5	251.5	252.7	253.9	255.1	256.4	258.8	262.5	266.2	269.9
167.5°	252.7	252.7	252.7	252.7	253.9	253.9	255.1	256.4	258.8	261.3	263.7
170°	253.9	252.7	252.7	253.9	252.7	252.7	253.9	255.1	255.1	257.6	258.8
172.5°	253.9	253.9	252.7	252.7	252.7	252.7	252.7	252.7	252.7	253.9	255.1
175°	253.9	253.9	252.7	252.7	252.7	251.5	251.5	251.5	251.5	251.5	251.5
177.5°	253.9	253.9	252.7	252.7	251.5	251.5	251.5	251.5	251.5	251.5	251.5
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9	1449.9
2.5°	1459.7	1453.6	1451.1	1449.9	1448.7	1447.5	1445.0	1442.5	1440.1	1440.1
5°	1453.6	1447.5	1445.0	1443.8	1442.5	1441.3	1440.1	1440.1	1440.1	1440.1
7.5°	1443.8	1437.6	1435.2	1434.0	1434.0	1432.7	1432.7	1432.7	1431.5	1432.7
10°	1429.1	1422.9	1421.7	1420.5	1419.2	1416.8	1416.8	1416.8	1415.6	1416.8
12.5°	1410.7	1404.5	1403.3	1402.1	1400.8	1399.6	1399.6	1398.4	1398.4	1399.6
15°	1392.3	1383.7	1381.2	1381.2	1380.0	1378.8	1380.0	1378.8	1378.8	1378.8
17.5°	1365.3	1361.6	1357.9	1355.5	1354.2	1353.0	1353.0	1351.8	1351.8	1351.8
20°	1329.7	1329.7	1329.7	1323.6	1322.3	1321.1	1321.1	1321.1	1321.1	1321.1
22.5°	1295.3	1289.2	1294.1	1290.4	1288.0	1285.5	1286.8	1286.8	1286.8	1286.8
25°	1257.3	1252.4	1253.6	1254.9	1252.4	1248.7	1248.7	1248.7	1248.7	1247.5
27.5°	1216.8	1213.2	1211.9	1213.2	1215.6	1213.2	1209.5	1205.8	1207.0	1207.0
30°	1172.7	1171.5	1170.2	1167.8	1170.2	1171.5	1165.3	1164.1	1164.1	1164.1
32.5°	1128.5	1127.3	1123.6	1121.2	1122.4	1124.8	1122.4	1119.9	1119.9	1119.9
35°	1084.4	1079.5	1075.8	1074.5	1074.5	1077.0	1075.8	1072.1	1072.1	1072.1
37.5°	1032.8	1034.1	1027.9	1026.7	1026.7	1026.7	1029.2	1023.0	1024.3	1023.0
40°	982.5	983.8	980.1	976.4	977.6	975.2	978.9	972.7	972.7	972.7
42.5°	932.3	929.8	931.0	923.7	924.9	924.9	926.1	922.4	921.2	920.0
45°	880.7	878.3	877.1	873.4	873.4	872.2	872.2	867.2	867.2	867.2
47.5°	826.8	825.5	823.1	820.6	820.6	819.4	817.0	815.7	814.5	814.5
50°	775.2	771.6	767.9	769.1	767.9	766.7	764.2	763.0	761.8	760.5
52.5°	720.0	720.0	715.1	715.1	715.1	713.9	711.5	709.0	709.0	707.8
55°	666.1	664.8	661.2	659.9	661.2	659.9	657.5	655.0	655.0	653.8
57.5°	612.1	609.6	608.4	608.4	607.2	607.2	603.5	601.1	602.3	601.1
60°	556.9	556.9	555.7	554.4	554.4	553.2	549.5	549.5	549.5	548.3
62.5°	504.2	504.2	501.7	500.5	501.7	500.5	499.2	498.0	496.8	495.6
65°	449.0	450.2	447.7	449.0	449.0	446.5	446.5	445.3	445.3	444.0
67.5°	397.4	397.4	396.2	396.2	397.4	396.2	396.2	395.0	395.0	393.8
70°	344.7	347.1	345.9	345.9	345.9	344.7	344.7	344.7	343.5	344.7
72.5°	291.9	291.9	291.9	291.9	291.9	293.2	293.2	293.2	293.2	291.9
75°	242.9	244.1	242.9	244.1	245.3	245.3	245.3	245.3	246.6	245.3
77.5°	195.0	196.3	196.3	198.7	198.7	198.7	199.9	199.9	199.9	199.9
80°	149.7	150.9	152.1	154.6	154.6	157.0	158.2	158.2	158.2	158.2
82.5°	107.9	111.6	112.9	116.5	117.8	117.8	120.2	121.4	121.4	121.4
85°	74.8	78.5	81.0	83.4	85.9	85.9	88.3	88.3	89.5	89.5
87.5°	46.6	50.3	52.7	56.4	57.7	58.9	60.1	61.3	62.6	62.6
90°	25.8	28.2	30.7	33.1	33.1	34.3	35.6	36.8	38.0	38.0
92.5°	18.4	19.6	22.1	23.3	23.3	24.5	25.8	25.8	27.0	27.0
95°	20.9	22.1	22.1	23.3	23.3	23.3	24.5	24.5	24.5	24.5
97.5°	31.9	31.9	31.9	30.7	30.7	30.7	30.7	30.7	30.7	30.7
100°	41.7	42.9	42.9	42.9	44.2	44.2	44.2	44.2	42.9	42.9
102.5°	46.6	47.8	49.1	50.3	50.3	50.3	51.5	51.5	51.5	51.5
105°	52.7	52.7	54.0	55.2	55.2	55.2	56.4	56.4	56.4	56.4
107.5°	60.1	60.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
110°	68.7	68.7	68.7	67.5	68.7	67.5	67.5	67.5	67.5	67.5



TEST NUMBER: P395883

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	78.5	77.3	77.3	76.1	76.1	76.1	74.8	74.8	74.8	74.8
115°	94.5	88.3	85.9	83.4	83.4	83.4	82.2	82.2	82.2	82.2
117.5°	114.1	105.5	100.6	95.7	94.5	93.2	90.8	90.8	89.5	89.5
120°	134.9	126.3	119.0	112.9	110.4	109.2	105.5	103.0	100.6	100.6
122.5°	154.6	146.0	138.6	132.5	130.0	127.6	123.9	121.4	119.0	119.0
125°	174.2	165.6	158.2	152.1	148.4	146.0	142.3	139.8	137.4	137.4
127.5°	195.0	184.0	176.6	170.5	166.8	165.6	160.7	158.2	155.8	155.8
130°	218.3	204.9	195.0	187.7	185.2	182.8	179.1	176.6	174.2	174.2
132.5°	241.7	228.2	217.1	207.3	203.6	201.2	196.3	193.8	191.4	191.4
135°	263.7	251.5	240.4	230.6	226.9	223.3	218.3	213.4	211.0	211.0
137.5°	280.9	272.3	262.5	253.9	250.2	246.6	241.7	236.7	233.1	234.3
140°	295.6	288.3	282.1	276.0	272.3	269.9	265.0	261.3	257.6	257.6
142.5°	309.1	303.0	296.9	291.9	290.7	289.5	285.8	282.1	279.7	279.7
145°	321.4	317.7	312.8	306.7	305.4	304.2	300.5	298.1	296.9	296.9
147.5°	325.1	326.3	325.1	321.4	320.2	318.9	316.5	314.0	312.8	312.8
150°	322.6	327.5	330.0	330.0	330.0	330.0	330.0	327.5	326.3	326.3
152.5°	315.3	322.6	327.5	331.2	332.4	333.6	333.6	334.9	333.6	333.6
155°	306.7	314.0	321.4	325.1	327.5	328.7	331.2	332.4	333.6	332.4
157.5°	296.9	303.0	307.9	315.3	317.7	320.2	322.6	325.1	326.3	325.1
160°	288.3	293.2	296.9	301.8	303.0	305.4	307.9	309.1	311.6	310.3
162.5°	279.7	283.4	287.0	289.5	291.9	293.2	295.6	296.9	298.1	296.9
165°	273.5	276.0	277.2	279.7	280.9	282.1	283.4	284.6	284.6	284.6
167.5°	266.2	268.6	269.9	271.1	272.3	273.5	273.5	274.8	274.8	274.8
170°	260.1	261.3	262.5	263.7	263.7	265.0	265.0	265.0	266.2	265.0
172.5°	255.1	255.1	255.1	256.4	256.4	256.4	256.4	256.4	256.4	255.1
175°	252.7	252.7	251.5	251.5	251.5	251.5	251.5	250.2	249.0	247.8
177.5°	251.5	250.2	250.2	249.0	249.0	249.0	247.8	246.6	245.3	244.1
180°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2

(END OF REPORT)