

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: P395904

Luminaire Tested: **I3-WL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395904
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-50L93050-1D-UNV-W2A-W-4 (4500K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495.5 lumens
Efficiency: N/A
Efficacy: 85.1 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

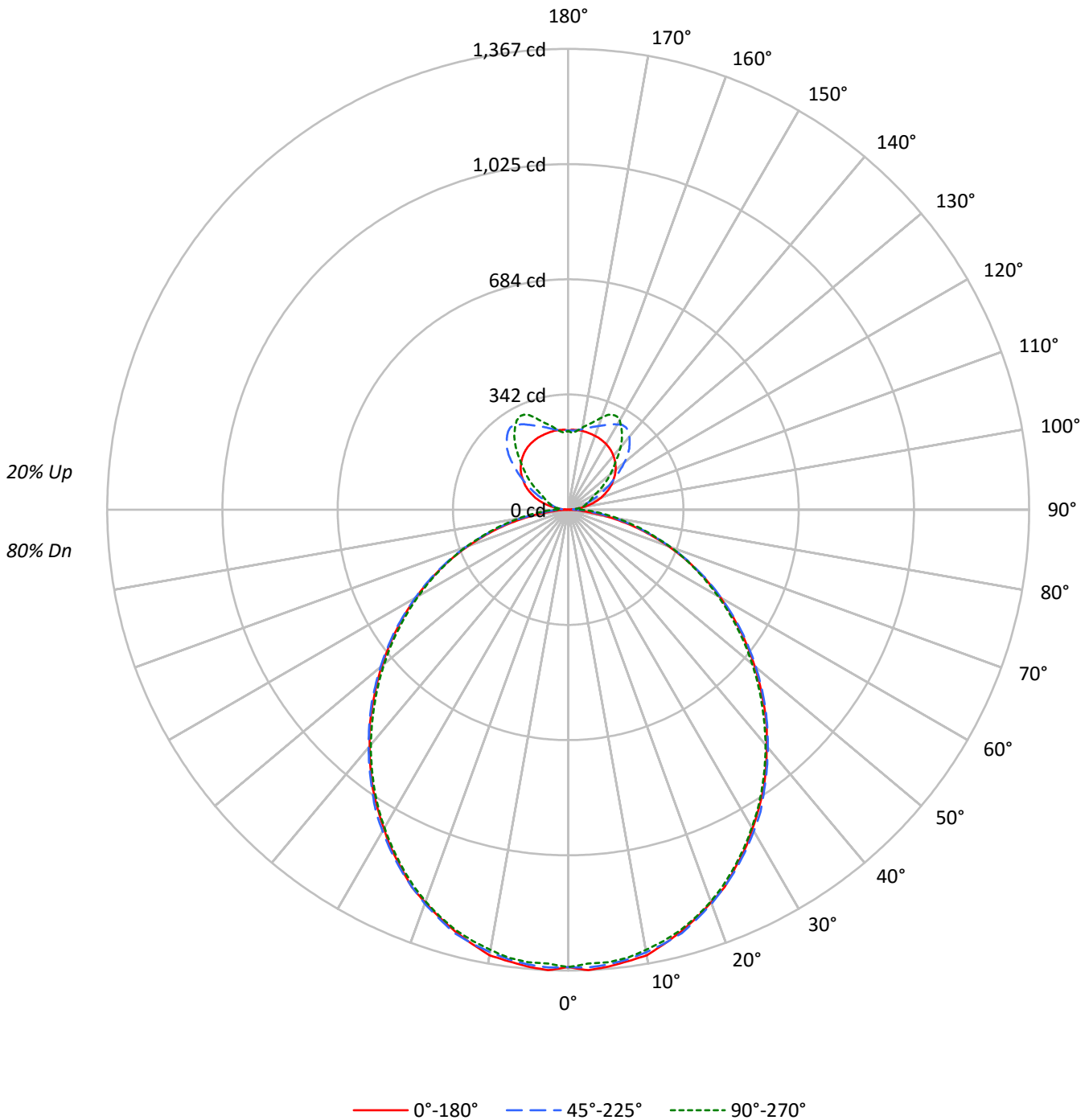
Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7458	7458	7458
5°	7478	7304	7225
10°	7434	7106	6989
15°	7285	6909	6740
20°	7141	6631	6449
25°	6970	6349	6128
30°	6770	6058	5798
35°	6582	5735	5458
40°	6347	5401	5105
45°	6120	5076	4732
50°	5877	4719	4356
55°	5621	4354	3973
60°	5336	3949	3577
65°	5008	3509	3152
70°	4542	2996	2706
75°	3913	2374	2173
80°	2986	1711	1622
85°	1557	1021	1099



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CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	2.9
10°-20°	363.6	8.1
20°-30°	538.4	12.0
30°-40°	629.3	14.0
40°-50°	632.1	14.1
50°-60°	555.6	12.4
60°-70°	416.3	9.3
70°-80°	236.7	5.3
80°-90°	74.7	1.7
90°-100°	26.9	0.6
100°-110°	65.6	1.5
110°-120°	109.1	2.4
120°-130°	153.0	3.4
130°-140°	176.4	3.9
140°-150°	168.4	3.7
150°-160°	126.7	2.8
160°-170°	71.7	1.6
170°-180°	22.7	0.5
0°-30°	1030.3	22.9
0°-40°	1659.6	36.9
0°-60°	2847.2	63.3
0°-90°	3575.0	79.5
90°-120°	201.7	4.5
90°-150°	699.5	15.6
90°-180°	921.0	20.5
0°-180°	4495.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1360	1347	1355	1350	1348	129
15°	1295	1284	1301	1292	1290	365
25°	1172	1169	1177	1172	1168	540
35°	1010	1002	1014	1006	1003	631
45°	821	820	827	817	812	633
55°	622	624	627	619	612	556
65°	420	421	424	420	416	415
75°	214	217	223	230	230	226
85°	37	48	65	80	84	48
90°	1	7	21	31	36	3
95°	20	20	20	22	23	22
105°	77	65	49	52	53	80
115°	126	157	96	78	77	125
125°	166	230	173	139	129	149
135°	198	250	256	212	198	152
145°	218	248	298	286	278	136
155°	230	243	278	306	311	106
165°	235	239	253	263	266	67
175°	238	235	235	235	232	23
180°	234	234	234	234	234	



TEST NUMBER: P395904

CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9
2.5°	1367.3	1365.0	1359.2	1353.5	1352.3	1351.2	1351.2	1350.0	1350.0	1352.3	1359.2
5°	1360.4	1359.2	1353.5	1347.7	1346.6	1346.6	1345.4	1345.4	1345.4	1347.7	1354.6
7.5°	1351.2	1348.9	1343.1	1337.4	1336.3	1336.3	1336.3	1335.1	1336.3	1337.4	1345.4
10°	1342.0	1340.9	1335.1	1328.2	1325.9	1325.9	1324.8	1322.5	1322.5	1324.8	1332.8
12.5°	1319.0	1317.9	1312.2	1307.6	1307.6	1308.7	1308.7	1309.9	1309.9	1312.2	1317.9
15°	1294.9	1293.8	1288.0	1283.5	1283.5	1283.5	1282.3	1282.3	1283.5	1290.3	1300.7
17.5°	1268.5	1267.4	1262.8	1258.2	1258.2	1258.2	1257.1	1257.1	1258.2	1261.6	1272.0
20°	1239.8	1238.7	1234.1	1229.5	1229.5	1229.5	1228.4	1229.5	1229.5	1234.1	1243.3
22.5°	1212.3	1210.0	1204.2	1199.7	1197.4	1197.4	1197.4	1196.2	1198.5	1201.9	1211.1
25°	1172.1	1171.0	1168.7	1165.2	1167.5	1168.7	1166.4	1164.1	1164.1	1168.7	1176.7
27.5°	1135.4	1133.1	1129.6	1126.2	1123.9	1125.0	1126.2	1128.5	1131.9	1133.1	1140.0
30°	1092.9	1091.7	1088.3	1083.7	1084.9	1086.0	1086.0	1086.0	1088.3	1098.6	1100.9
32.5°	1051.6	1050.4	1047.0	1042.4	1043.5	1044.7	1043.5	1044.7	1047.0	1051.6	1061.9
35°	1010.2	1007.9	1004.5	1003.3	1002.2	1002.2	1002.2	1003.3	1004.5	1007.9	1013.7
37.5°	963.2	960.9	958.6	955.1	957.4	959.7	960.9	959.7	960.9	965.5	967.8
40°	916.1	914.9	912.7	910.4	911.5	912.7	911.5	914.9	917.2	919.5	920.7
42.5°	871.3	869.0	866.7	865.6	865.6	866.7	866.7	869.0	869.0	874.8	873.6
45°	820.8	819.7	818.5	818.5	819.7	819.7	819.7	820.8	822.0	825.4	826.6
47.5°	771.4	770.3	770.3	770.3	770.3	771.4	772.6	776.0	773.7	774.9	776.0
50°	722.1	720.9	720.9	720.9	723.2	723.2	725.5	726.7	727.8	725.5	726.7
52.5°	671.6	670.4	672.7	672.7	675.0	675.0	678.5	675.0	677.3	676.2	676.2
55°	622.2	621.1	623.4	622.2	624.5	624.5	626.8	628.0	626.8	626.8	626.8
57.5°	571.7	570.6	571.7	572.8	574.0	574.0	577.4	577.4	574.0	576.3	575.1
60°	521.2	520.0	521.2	522.3	523.5	523.5	524.6	522.3	524.6	525.8	524.6
62.5°	470.7	469.5	471.8	470.7	471.8	473.0	473.0	476.4	475.3	475.3	474.1
65°	420.2	419.0	419.0	419.0	420.2	421.3	422.5	423.6	423.6	424.8	423.6
67.5°	368.5	367.4	368.5	367.4	368.5	369.7	371.9	373.1	373.1	374.2	373.1
70°	315.7	316.8	315.7	316.8	318.0	319.1	320.3	322.6	322.6	322.6	322.6
72.5°	264.0	262.9	262.9	261.7	264.0	265.2	266.3	269.8	269.8	270.9	270.9
75°	213.5	211.2	212.4	211.2	215.8	217.0	217.0	220.4	221.6	223.9	222.7
77.5°	164.2	164.2	161.9	165.3	166.5	168.8	171.1	173.3	174.5	177.9	177.9
80°	117.1	117.1	115.9	118.2	122.8	124.0	127.4	128.6	132.0	134.3	135.5
82.5°	74.6	74.6	74.6	78.1	81.5	82.7	86.1	89.5	91.8	95.3	96.4
85°	36.7	39.0	39.0	43.6	45.9	48.2	49.4	54.0	57.4	62.0	65.4
87.5°	11.5	12.6	13.8	16.1	20.7	21.8	24.1	28.7	32.1	36.7	40.2
90°	1.1	1.1	2.3	3.4	5.7	6.9	9.2	11.5	14.9	18.4	20.7
92.5°	8.0	8.0	9.2	9.2	9.2	9.2	9.2	10.3	11.5	13.8	14.9
95°	19.5	31.0	18.4	17.2	19.5	19.5	20.7	19.5	19.5	19.5	19.5
97.5°	32.1	57.4	37.9	26.4	25.3	26.4	26.4	28.7	29.8	31.0	31.0
100°	47.1	72.3	66.6	43.6	35.6	34.4	34.4	34.4	35.6	36.7	37.9
102.5°	62.0	82.7	95.3	67.7	50.5	45.9	43.6	42.5	41.3	42.5	42.5
105°	76.9	93.0	117.1	91.8	72.3	65.4	58.5	50.5	49.4	49.4	49.4
107.5°	90.7	103.3	133.2	119.4	94.1	87.2	79.2	66.6	58.5	57.4	56.3
110°	103.3	113.7	144.6	142.4	118.2	107.9	101.0	87.2	75.8	67.7	64.3



TEST NUMBER: P395904

CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	114.8	124.0	152.7	161.9	144.6	132.0	121.7	107.9	95.3	85.0	76.9
115°	126.3	134.3	159.6	177.9	167.6	157.3	145.8	128.6	115.9	105.6	96.4
117.5°	137.8	144.6	166.5	189.4	187.1	180.2	171.1	150.4	135.5	125.1	114.8
120°	148.1	155.0	173.3	197.5	204.3	198.6	192.9	174.5	156.1	144.6	135.5
122.5°	157.3	163.0	180.2	204.3	217.0	215.8	210.1	197.5	179.1	165.3	153.8
125°	166.5	172.2	187.1	208.9	226.2	229.6	227.3	217.0	203.2	187.1	173.3
127.5°	175.6	180.2	194.0	213.5	233.0	239.9	241.1	234.2	223.9	210.1	195.2
130°	183.7	188.3	199.8	217.0	237.6	245.7	250.3	249.1	241.1	231.9	217.0
132.5°	190.6	194.0	205.5	220.4	239.9	249.1	256.0	261.7	256.0	249.1	238.8
135°	197.5	200.9	210.1	223.9	241.1	250.3	259.4	268.6	269.8	264.0	256.0
137.5°	203.2	205.5	214.7	226.2	241.1	250.3	259.4	272.1	279.0	276.7	269.8
140°	208.9	211.2	218.1	229.6	242.2	250.3	258.3	273.2	282.4	285.8	282.4
142.5°	213.5	215.8	221.6	231.9	242.2	249.1	257.1	270.9	283.6	290.4	292.7
145°	218.1	219.3	225.0	233.0	242.2	248.0	254.9	268.6	281.3	291.6	298.5
147.5°	221.6	222.7	226.2	234.2	242.2	246.8	252.6	264.0	276.7	288.1	298.5
150°	225.0	225.0	228.5	234.2	242.2	245.7	250.3	260.6	270.9	282.4	291.6
152.5°	227.3	227.3	230.7	235.3	241.1	244.5	249.1	257.1	266.3	276.7	285.8
155°	229.6	229.6	231.9	235.3	241.1	243.4	246.8	253.7	261.7	269.8	277.8
157.5°	231.9	231.9	233.0	236.5	239.9	242.2	245.7	251.4	257.1	264.0	270.9
160°	233.0	233.0	234.2	236.5	238.8	241.1	243.4	248.0	253.7	258.3	264.0
162.5°	234.2	234.2	235.3	236.5	238.8	239.9	241.1	245.7	249.1	253.7	258.3
165°	235.3	235.3	235.3	236.5	237.6	238.8	239.9	242.2	245.7	249.1	252.6
167.5°	236.5	236.5	236.5	236.5	237.6	237.6	238.8	239.9	242.2	244.5	246.8
170°	237.6	236.5	236.5	237.6	236.5	236.5	237.6	238.8	238.8	241.1	242.2
172.5°	237.6	237.6	236.5	236.5	236.5	236.5	236.5	236.5	236.5	237.6	238.8
175°	237.6	237.6	236.5	236.5	236.5	235.3	235.3	235.3	235.3	235.3	235.3
177.5°	237.6	237.6	236.5	236.5	235.3	235.3	235.3	235.3	235.3	235.3	235.3
180°	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9	1356.9
2.5°	1366.1	1360.4	1358.1	1356.9	1355.8	1354.6	1352.3	1350.0	1347.7	1347.7
5°	1360.4	1354.6	1352.3	1351.2	1350.0	1348.9	1347.7	1347.7	1347.7	1347.7
7.5°	1351.2	1345.4	1343.1	1342.0	1342.0	1340.9	1340.9	1340.9	1339.7	1340.9
10°	1337.4	1331.7	1330.5	1329.4	1328.2	1325.9	1325.9	1325.9	1324.8	1325.9
12.5°	1320.2	1314.4	1313.3	1312.2	1311.0	1309.9	1309.9	1308.7	1308.7	1309.9
15°	1303.0	1294.9	1292.6	1292.6	1291.5	1290.3	1291.5	1290.3	1290.3	1290.3
17.5°	1277.7	1274.3	1270.8	1268.5	1267.4	1266.2	1266.2	1265.1	1265.1	1265.1
20°	1244.4	1244.4	1244.4	1238.7	1237.5	1236.4	1236.4	1236.4	1236.4	1236.4
22.5°	1212.3	1206.5	1211.1	1207.7	1205.4	1203.1	1204.2	1204.2	1204.2	1204.2
25°	1176.7	1172.1	1173.2	1174.4	1172.1	1168.7	1168.7	1168.7	1168.7	1167.5
27.5°	1138.8	1135.4	1134.2	1135.4	1137.7	1135.4	1131.9	1128.5	1129.6	1129.6
30°	1097.5	1096.3	1095.2	1092.9	1095.2	1096.3	1090.6	1089.4	1089.4	1089.4
32.5°	1056.2	1055.0	1051.6	1049.3	1050.4	1052.7	1050.4	1048.1	1048.1	1048.1
35°	1014.8	1010.2	1006.8	1005.6	1005.6	1007.9	1006.8	1003.3	1003.3	1003.3
37.5°	966.6	967.8	962.0	960.9	960.9	960.9	963.2	957.4	958.6	957.4
40°	919.5	920.7	917.2	913.8	914.9	912.7	916.1	910.4	910.4	910.4
42.5°	872.5	870.2	871.3	864.4	865.6	865.6	866.7	863.3	862.1	861.0
45°	824.3	822.0	820.8	817.4	817.4	816.2	816.2	811.6	811.6	811.6
47.5°	773.7	772.6	770.3	768.0	768.0	766.9	764.6	763.4	762.3	762.3
50°	725.5	722.1	718.6	719.8	718.6	717.5	715.2	714.1	712.9	711.8
52.5°	673.9	673.9	669.3	669.3	669.3	668.1	665.8	663.5	663.5	662.4
55°	623.4	622.2	618.8	617.6	618.8	617.6	615.3	613.0	613.0	611.9
57.5°	572.8	570.6	569.4	569.4	568.3	568.3	564.8	562.5	563.7	562.5
60°	521.2	521.2	520.0	518.9	518.9	517.7	514.3	514.3	514.3	513.2
62.5°	471.8	471.8	469.5	468.4	469.5	468.4	467.2	466.1	464.9	463.8
65°	420.2	421.3	419.0	420.2	420.2	417.9	417.9	416.7	416.7	415.6
67.5°	371.9	371.9	370.8	370.8	371.9	370.8	370.8	369.7	369.7	368.5
70°	322.6	324.9	323.7	323.7	323.7	322.6	322.6	322.6	321.4	322.6
72.5°	273.2	273.2	273.2	273.2	273.2	274.4	274.4	274.4	274.4	273.2
75°	227.3	228.5	227.3	228.5	229.6	229.6	229.6	229.6	230.7	229.6
77.5°	182.5	183.7	183.7	186.0	186.0	186.0	187.1	187.1	187.1	187.1
80°	140.1	141.2	142.4	144.6	144.6	146.9	148.1	148.1	148.1	148.1
82.5°	101.0	104.5	105.6	109.1	110.2	110.2	112.5	113.7	113.7	113.7
85°	70.0	73.5	75.8	78.1	80.4	80.4	82.7	82.7	83.8	83.8
87.5°	43.6	47.1	49.4	52.8	54.0	55.1	56.3	57.4	58.5	58.5
90°	24.1	26.4	28.7	31.0	31.0	32.1	33.3	34.4	35.6	35.6
92.5°	17.2	18.4	20.7	21.8	21.8	23.0	24.1	24.1	25.3	25.3
95°	19.5	20.7	20.7	21.8	21.8	21.8	23.0	23.0	23.0	23.0
97.5°	29.8	29.8	29.8	28.7	28.7	28.7	28.7	28.7	28.7	28.7
100°	39.0	40.2	40.2	40.2	41.3	41.3	41.3	41.3	40.2	40.2
102.5°	43.6	44.8	45.9	47.1	47.1	47.1	48.2	48.2	48.2	48.2
105°	49.4	49.4	50.5	51.7	51.7	51.7	52.8	52.8	52.8	52.8
107.5°	56.3	56.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
110°	64.3	64.3	64.3	63.1	64.3	63.1	63.1	63.1	63.1	63.1



TEST NUMBER: P395904

CATALOG NUMBER: I3-WL-50L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	73.5	72.3	72.3	71.2	71.2	71.2	70.0	70.0	70.0	70.0
115°	88.4	82.7	80.4	78.1	78.1	78.1	76.9	76.9	76.9	76.9
117.5°	106.8	98.7	94.1	89.5	88.4	87.2	85.0	85.0	83.8	83.8
120°	126.3	118.2	111.4	105.6	103.3	102.2	98.7	96.4	94.1	94.1
122.5°	144.6	136.6	129.7	124.0	121.7	119.4	115.9	113.7	111.4	111.4
125°	163.0	155.0	148.1	142.4	138.9	136.6	133.2	130.9	128.6	128.6
127.5°	182.5	172.2	165.3	159.6	156.1	155.0	150.4	148.1	145.8	145.8
130°	204.3	191.7	182.5	175.6	173.3	171.1	167.6	165.3	163.0	163.0
132.5°	226.2	213.5	203.2	194.0	190.6	188.3	183.7	181.4	179.1	179.1
135°	246.8	235.3	225.0	215.8	212.4	208.9	204.3	199.8	197.5	197.5
137.5°	262.9	254.9	245.7	237.6	234.2	230.7	226.2	221.6	218.1	219.3
140°	276.7	269.8	264.0	258.3	254.9	252.6	248.0	244.5	241.1	241.1
142.5°	289.3	283.6	277.8	273.2	272.1	270.9	267.5	264.0	261.7	261.7
145°	300.8	297.3	292.7	287.0	285.8	284.7	281.3	279.0	277.8	277.8
147.5°	304.2	305.4	304.2	300.8	299.6	298.5	296.2	293.9	292.7	292.7
150°	301.9	306.5	308.8	308.8	308.8	308.8	308.8	306.5	305.4	305.4
152.5°	295.0	301.9	306.5	310.0	311.1	312.3	312.3	313.4	312.3	312.3
155°	287.0	293.9	300.8	304.2	306.5	307.7	310.0	311.1	312.3	311.1
157.5°	277.8	283.6	288.1	295.0	297.3	299.6	301.9	304.2	305.4	304.2
160°	269.8	274.4	277.8	282.4	283.6	285.8	288.1	289.3	291.6	290.4
162.5°	261.7	265.2	268.6	270.9	273.2	274.4	276.7	277.8	279.0	277.8
165°	256.0	258.3	259.4	261.7	262.9	264.0	265.2	266.3	266.3	266.3
167.5°	249.1	251.4	252.6	253.7	254.9	256.0	256.0	257.1	257.1	257.1
170°	243.4	244.5	245.7	246.8	246.8	248.0	248.0	248.0	249.1	248.0
172.5°	238.8	238.8	238.8	239.9	239.9	239.9	239.9	239.9	239.9	238.8
175°	236.5	236.5	235.3	235.3	235.3	235.3	235.3	234.2	233.0	231.9
177.5°	235.3	234.2	234.2	233.0	233.0	233.0	231.9	230.7	229.6	228.5
180°	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2

(END OF REPORT)