

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: P395898

Luminaire Tested: **I3-WL-50L92765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395898
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-50L92765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4447.3 lumens
Efficiency: N/A
Efficacy: 85.7 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

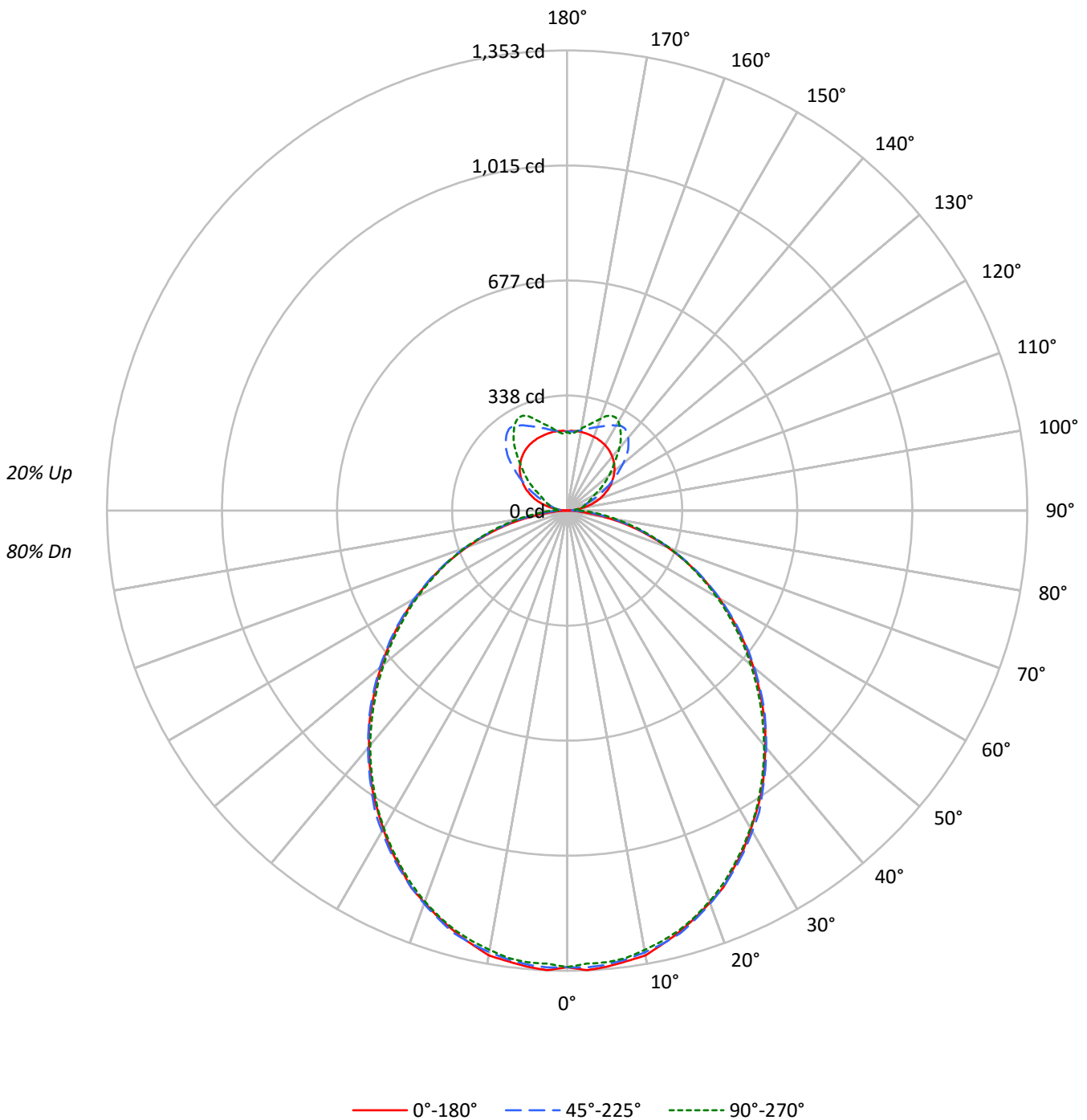
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7378	7378	7378
5°	7398	7226	7148
10°	7354	7029	6915
15°	7208	6835	6668
20°	7065	6560	6380
25°	6895	6281	6062
30°	6698	5993	5737
35°	6512	5673	5400
40°	6279	5343	5050
45°	6054	5021	4681
50°	5814	4669	4309
55°	5560	4307	3930
60°	5279	3907	3538
65°	4954	3472	3118
70°	4493	2964	2677
75°	3871	2349	2149
80°	2953	1692	1604
85°	1540	1010	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	2.9
10°-20°	359.7	8.1
20°-30°	532.6	12.0
30°-40°	622.5	14.0
40°-50°	625.3	14.1
50°-60°	549.6	12.4
60°-70°	411.8	9.3
70°-80°	234.2	5.3
80°-90°	73.9	1.7
90°-100°	26.7	0.6
100°-110°	64.9	1.5
110°-120°	107.9	2.4
120°-130°	151.4	3.4
130°-140°	174.5	3.9
140°-150°	166.6	3.7
150°-160°	125.3	2.8
160°-170°	70.9	1.6
170°-180°	22.5	0.5
0°-30°	1019.2	22.9
0°-40°	1641.8	36.9
0°-60°	2816.7	63.3
0°-90°	3536.7	79.5
90°-120°	199.5	4.5
90°-150°	692.0	15.6
90°-180°	911.0	20.5
0°-180°	4447.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1346	1332	1340	1336	1333	128
15°	1281	1270	1287	1278	1276	361
25°	1160	1156	1164	1160	1155	534
35°	999	992	1003	995	993	624
45°	812	811	818	809	803	627
55°	616	618	620	612	605	550
65°	416	417	419	416	411	411
75°	211	215	220	227	227	224
85°	36	48	65	80	83	47
90°	1	7	20	31	35	3
95°	19	19	19	22	23	21
105°	76	65	49	51	52	80
115°	125	156	95	77	76	124
125°	165	227	172	137	127	147
135°	195	248	253	210	195	151
145°	216	245	295	283	275	135
155°	227	241	275	303	308	105
165°	233	236	250	260	264	66
175°	235	233	233	233	229	22
180°	232	232	232	232	232	



TEST NUMBER: P395898

CATALOG NUMBER: I3-WL-50L92765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4
2.5°	1352.6	1350.3	1344.7	1339.0	1337.9	1336.7	1336.7	1335.6	1335.6	1337.9	1344.7
5°	1345.8	1344.7	1339.0	1333.3	1332.2	1332.2	1331.0	1331.0	1331.0	1333.3	1340.1
7.5°	1336.7	1334.4	1328.8	1323.1	1322.0	1322.0	1322.0	1320.8	1322.0	1323.1	1331.0
10°	1327.6	1326.5	1320.8	1314.0	1311.7	1311.7	1310.6	1308.3	1308.3	1310.6	1318.5
12.5°	1304.9	1303.8	1298.1	1293.6	1293.6	1294.7	1294.7	1295.8	1295.8	1298.1	1303.8
15°	1281.1	1279.9	1274.3	1269.7	1269.7	1269.7	1268.6	1268.6	1269.7	1276.5	1286.7
17.5°	1254.9	1253.8	1249.3	1244.7	1244.7	1244.7	1243.6	1243.6	1244.7	1248.1	1258.4
20°	1226.6	1225.4	1220.9	1216.3	1216.3	1216.3	1215.2	1216.3	1216.3	1220.9	1230.0
22.5°	1199.3	1197.0	1191.3	1186.8	1184.5	1184.5	1184.5	1183.4	1185.7	1189.1	1198.2
25°	1159.5	1158.4	1156.1	1152.7	1155.0	1156.1	1153.9	1151.6	1151.6	1156.1	1164.1
27.5°	1123.2	1120.9	1117.5	1114.1	1111.9	1113.0	1114.1	1116.4	1119.8	1120.9	1127.7
30°	1081.2	1080.1	1076.6	1072.1	1073.2	1074.4	1074.4	1074.4	1076.6	1086.9	1089.1
32.5°	1040.3	1039.2	1035.8	1031.2	1032.4	1033.5	1032.4	1033.5	1035.8	1040.3	1050.5
35°	999.4	997.1	993.7	992.6	991.5	991.5	991.5	992.6	993.7	997.1	1002.8
37.5°	952.9	950.6	948.3	944.9	947.2	949.4	950.6	949.4	950.6	955.1	957.4
40°	906.3	905.2	902.9	900.6	901.7	902.9	901.7	905.2	907.4	909.7	910.8
42.5°	862.0	859.7	857.5	856.3	856.3	857.5	857.5	859.7	859.7	865.4	864.3
45°	812.0	810.9	809.8	809.8	810.9	810.9	810.9	812.0	813.2	816.6	817.7
47.5°	763.2	762.1	762.1	762.1	762.1	763.2	764.3	767.7	765.5	766.6	767.7
50°	714.4	713.2	713.2	713.2	715.5	715.5	717.8	718.9	720.0	717.8	718.9
52.5°	664.4	663.2	665.5	665.5	667.8	667.8	671.2	667.8	670.1	668.9	668.9
55°	615.5	614.4	616.7	615.5	617.8	617.8	620.1	621.2	620.1	620.1	620.1
57.5°	565.6	564.4	565.6	566.7	567.8	567.8	571.3	571.3	567.8	570.1	569.0
60°	515.6	514.5	515.6	516.7	517.9	517.9	519.0	516.7	519.0	520.2	519.0
62.5°	465.6	464.5	466.8	465.6	466.8	467.9	467.9	471.3	470.2	470.2	469.0
65°	415.7	414.5	414.5	414.5	415.7	416.8	417.9	419.1	419.1	420.2	419.1
67.5°	364.6	363.4	364.6	363.4	364.6	365.7	368.0	369.1	369.1	370.2	369.1
70°	312.3	313.5	312.3	313.5	314.6	315.7	316.9	319.1	319.1	319.1	319.1
72.5°	261.2	260.1	260.1	258.9	261.2	262.3	263.5	266.9	266.9	268.0	268.0
75°	211.2	209.0	210.1	209.0	213.5	214.6	214.6	218.1	219.2	221.5	220.3
77.5°	162.4	162.4	160.1	163.5	164.7	166.9	169.2	171.5	172.6	176.0	176.0
80°	115.8	115.8	114.7	117.0	121.5	122.7	126.1	127.2	130.6	132.9	134.0
82.5°	73.8	73.8	73.8	77.2	80.6	81.8	85.2	88.6	90.9	94.3	95.4
85°	36.3	38.6	38.6	43.2	45.4	47.7	48.8	53.4	56.8	61.3	64.7
87.5°	11.4	12.5	13.6	15.9	20.4	21.6	23.8	28.4	31.8	36.3	39.7
90°	1.1	1.1	2.3	3.4	5.7	6.8	9.1	11.4	14.8	18.2	20.4
92.5°	7.9	7.9	9.1	9.1	9.1	9.1	9.1	10.2	11.4	13.6	14.8
95°	19.3	30.7	18.2	17.0	19.3	19.3	20.4	19.3	19.3	19.3	19.3
97.5°	31.8	56.8	37.5	26.1	25.0	26.1	26.1	28.4	29.5	30.7	30.7
100°	46.6	71.5	65.9	43.2	35.2	34.1	34.1	34.1	35.2	36.3	37.5
102.5°	61.3	81.8	94.3	67.0	50.0	45.4	43.2	42.0	40.9	42.0	42.0
105°	76.1	92.0	115.8	90.9	71.5	64.7	57.9	50.0	48.8	48.8	48.8
107.5°	89.7	102.2	131.7	118.1	93.1	86.3	78.4	65.9	57.9	56.8	55.6
110°	102.2	112.4	143.1	140.8	117.0	106.8	99.9	86.3	75.0	67.0	63.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	113.6	122.7	151.0	160.1	143.1	130.6	120.4	106.8	94.3	84.0	76.1
115°	124.9	132.9	157.9	176.0	165.8	155.6	144.2	127.2	114.7	104.5	95.4
117.5°	136.3	143.1	164.7	187.4	185.1	178.3	169.2	148.8	134.0	123.8	113.6
120°	146.5	153.3	171.5	195.3	202.2	196.5	190.8	172.6	154.5	143.1	134.0
122.5°	155.6	161.3	178.3	202.2	214.6	213.5	207.8	195.3	177.2	163.5	152.2
125°	164.7	170.4	185.1	206.7	223.7	227.1	224.9	214.6	201.0	185.1	171.5
127.5°	173.8	178.3	191.9	211.2	230.5	237.4	238.5	231.7	221.5	207.8	193.1
130°	181.7	186.3	197.6	214.6	235.1	243.0	247.6	246.4	238.5	229.4	214.6
132.5°	188.5	191.9	203.3	218.1	237.4	246.4	253.3	258.9	253.3	246.4	236.2
135°	195.3	198.7	207.8	221.5	238.5	247.6	256.7	265.8	266.9	261.2	253.3
137.5°	201.0	203.3	212.4	223.7	238.5	247.6	256.7	269.2	276.0	273.7	266.9
140°	206.7	209.0	215.8	227.1	239.6	247.6	255.5	270.3	279.4	282.8	279.4
142.5°	211.2	213.5	219.2	229.4	239.6	246.4	254.4	268.0	280.5	287.3	289.6
145°	215.8	216.9	222.6	230.5	239.6	245.3	252.1	265.8	278.2	288.5	295.3
147.5°	219.2	220.3	223.7	231.7	239.6	244.2	249.9	261.2	273.7	285.1	295.3
150°	222.6	222.6	226.0	231.7	239.6	243.0	247.6	257.8	268.0	279.4	288.5
152.5°	224.9	224.9	228.3	232.8	238.5	241.9	246.4	254.4	263.5	273.7	282.8
155°	227.1	227.1	229.4	232.8	238.5	240.8	244.2	251.0	258.9	266.9	274.8
157.5°	229.4	229.4	230.5	234.0	237.4	239.6	243.0	248.7	254.4	261.2	268.0
160°	230.5	230.5	231.7	234.0	236.2	238.5	240.8	245.3	251.0	255.5	261.2
162.5°	231.7	231.7	232.8	234.0	236.2	237.4	238.5	243.0	246.4	251.0	255.5
165°	232.8	232.8	232.8	234.0	235.1	236.2	237.4	239.6	243.0	246.4	249.9
167.5°	234.0	234.0	234.0	234.0	235.1	235.1	236.2	237.4	239.6	241.9	244.2
170°	235.1	234.0	234.0	235.1	234.0	234.0	235.1	236.2	236.2	238.5	239.6
172.5°	235.1	235.1	234.0	234.0	234.0	234.0	234.0	234.0	234.0	235.1	236.2
175°	235.1	235.1	234.0	234.0	234.0	232.8	232.8	232.8	232.8	232.8	232.8
177.5°	235.1	235.1	234.0	234.0	232.8	232.8	232.8	232.8	232.8	232.8	232.8
180°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4
2.5°	1351.5	1345.8	1343.5	1342.4	1341.3	1340.1	1337.9	1335.6	1333.3	1333.3
5°	1345.8	1340.1	1337.9	1336.7	1335.6	1334.4	1333.3	1333.3	1333.3	1333.3
7.5°	1336.7	1331.0	1328.8	1327.6	1327.6	1326.5	1326.5	1326.5	1325.4	1326.5
10°	1323.1	1317.4	1316.3	1315.1	1314.0	1311.7	1311.7	1311.7	1310.6	1311.7
12.5°	1306.1	1300.4	1299.2	1298.1	1297.0	1295.8	1295.8	1294.7	1294.7	1295.8
15°	1289.0	1281.1	1278.8	1278.8	1277.7	1276.5	1277.7	1276.5	1276.5	1276.5
17.5°	1264.0	1260.6	1257.2	1254.9	1253.8	1252.7	1252.7	1251.5	1251.5	1251.5
20°	1231.1	1231.1	1231.1	1225.4	1224.3	1223.1	1223.1	1223.1	1223.1	1223.1
22.5°	1199.3	1193.6	1198.2	1194.8	1192.5	1190.2	1191.3	1191.3	1191.3	1191.3
25°	1164.1	1159.5	1160.7	1161.8	1159.5	1156.1	1156.1	1156.1	1156.1	1155.0
27.5°	1126.6	1123.2	1122.1	1123.2	1125.5	1123.2	1119.8	1116.4	1117.5	1117.5
30°	1085.7	1084.6	1083.5	1081.2	1083.5	1084.6	1078.9	1077.8	1077.8	1077.8
32.5°	1044.8	1043.7	1040.3	1038.0	1039.2	1041.4	1039.2	1036.9	1036.9	1036.9
35°	1004.0	999.4	996.0	994.9	994.9	997.1	996.0	992.6	992.6	992.6
37.5°	956.3	957.4	951.7	950.6	950.6	950.6	952.9	947.2	948.3	947.2
40°	909.7	910.8	907.4	904.0	905.2	902.9	906.3	900.6	900.6	900.6
42.5°	863.1	860.9	862.0	855.2	856.3	856.3	857.5	854.0	852.9	851.8
45°	815.4	813.2	812.0	808.6	808.6	807.5	807.5	802.9	802.9	802.9
47.5°	765.5	764.3	762.1	759.8	759.8	758.6	756.4	755.2	754.1	754.1
50°	717.8	714.4	710.9	712.1	710.9	709.8	707.5	706.4	705.3	704.1
52.5°	666.7	666.7	662.1	662.1	662.1	661.0	658.7	656.4	656.4	655.3
55°	616.7	615.5	612.1	611.0	612.1	611.0	608.7	606.5	606.5	605.3
57.5°	566.7	564.4	563.3	563.3	562.2	562.2	558.8	556.5	557.6	556.5
60°	515.6	515.6	514.5	513.3	513.3	512.2	508.8	508.8	508.8	507.7
62.5°	466.8	466.8	464.5	463.4	464.5	463.4	462.2	461.1	460.0	458.8
65°	415.7	416.8	414.5	415.7	415.7	413.4	413.4	412.3	412.3	411.1
67.5°	368.0	368.0	366.8	366.8	368.0	366.8	366.8	365.7	365.7	364.6
70°	319.1	321.4	320.3	320.3	320.3	319.1	319.1	319.1	318.0	319.1
72.5°	270.3	270.3	270.3	270.3	270.3	271.4	271.4	271.4	271.4	270.3
75°	224.9	226.0	224.9	226.0	227.1	227.1	227.1	227.1	228.3	227.1
77.5°	180.6	181.7	181.7	184.0	184.0	184.0	185.1	185.1	185.1	185.1
80°	138.6	139.7	140.8	143.1	143.1	145.4	146.5	146.5	146.5	146.5
82.5°	99.9	103.3	104.5	107.9	109.0	109.0	111.3	112.4	112.4	112.4
85°	69.3	72.7	75.0	77.2	79.5	79.5	81.8	81.8	82.9	82.9
87.5°	43.2	46.6	48.8	52.2	53.4	54.5	55.6	56.8	57.9	57.9
90°	23.8	26.1	28.4	30.7	30.7	31.8	32.9	34.1	35.2	35.2
92.5°	17.0	18.2	20.4	21.6	21.6	22.7	23.8	23.8	25.0	25.0
95°	19.3	20.4	20.4	21.6	21.6	21.6	22.7	22.7	22.7	22.7
97.5°	29.5	29.5	29.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
100°	38.6	39.7	39.7	39.7	40.9	40.9	40.9	40.9	39.7	39.7
102.5°	43.2	44.3	45.4	46.6	46.6	46.6	47.7	47.7	47.7	47.7
105°	48.8	48.8	50.0	51.1	51.1	51.1	52.2	52.2	52.2	52.2
107.5°	55.6	55.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
110°	63.6	63.6	63.6	62.5	63.6	62.5	62.5	62.5	62.5	62.5



TEST NUMBER: P395898

CATALOG NUMBER: I3-WL-50L92765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	72.7	71.5	71.5	70.4	70.4	70.4	69.3	69.3	69.3	69.3
115°	87.4	81.8	79.5	77.2	77.2	77.2	76.1	76.1	76.1	76.1
117.5°	105.6	97.7	93.1	88.6	87.4	86.3	84.0	84.0	82.9	82.9
120°	124.9	117.0	110.2	104.5	102.2	101.1	97.7	95.4	93.1	93.1
122.5°	143.1	135.1	128.3	122.7	120.4	118.1	114.7	112.4	110.2	110.2
125°	161.3	153.3	146.5	140.8	137.4	135.1	131.7	129.5	127.2	127.2
127.5°	180.6	170.4	163.5	157.9	154.5	153.3	148.8	146.5	144.2	144.2
130°	202.2	189.7	180.6	173.8	171.5	169.2	165.8	163.5	161.3	161.3
132.5°	223.7	211.2	201.0	191.9	188.5	186.3	181.7	179.4	177.2	177.2
135°	244.2	232.8	222.6	213.5	210.1	206.7	202.2	197.6	195.3	195.3
137.5°	260.1	252.1	243.0	235.1	231.7	228.3	223.7	219.2	215.8	216.9
140°	273.7	266.9	261.2	255.5	252.1	249.9	245.3	241.9	238.5	238.5
142.5°	286.2	280.5	274.8	270.3	269.2	268.0	264.6	261.2	258.9	258.9
145°	297.6	294.1	289.6	283.9	282.8	281.7	278.2	276.0	274.8	274.8
147.5°	301.0	302.1	301.0	297.6	296.4	295.3	293.0	290.7	289.6	289.6
150°	298.7	303.2	305.5	305.5	305.5	305.5	305.5	303.2	302.1	302.1
152.5°	291.9	298.7	303.2	306.6	307.8	308.9	308.9	310.0	308.9	308.9
155°	283.9	290.7	297.6	301.0	303.2	304.4	306.6	307.8	308.9	307.8
157.5°	274.8	280.5	285.1	291.9	294.1	296.4	298.7	301.0	302.1	301.0
160°	266.9	271.4	274.8	279.4	280.5	282.8	285.1	286.2	288.5	287.3
162.5°	258.9	262.3	265.8	268.0	270.3	271.4	273.7	274.8	276.0	274.8
165°	253.3	255.5	256.7	258.9	260.1	261.2	262.3	263.5	263.5	263.5
167.5°	246.4	248.7	249.9	251.0	252.1	253.3	253.3	254.4	254.4	254.4
170°	240.8	241.9	243.0	244.2	244.2	245.3	245.3	245.3	246.4	245.3
172.5°	236.2	236.2	236.2	237.4	237.4	237.4	237.4	237.4	237.4	236.2
175°	234.0	234.0	232.8	232.8	232.8	232.8	232.8	231.7	230.5	229.4
177.5°	232.8	231.7	231.7	230.5	230.5	230.5	229.4	228.3	227.1	226.0
180°	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7	231.7

(END OF REPORT)