

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: P395880

Luminaire Tested: **I3-WL-50L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395880
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 (2700K)
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.4 lumens
Efficiency: N/A
Efficacy: 87.1 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

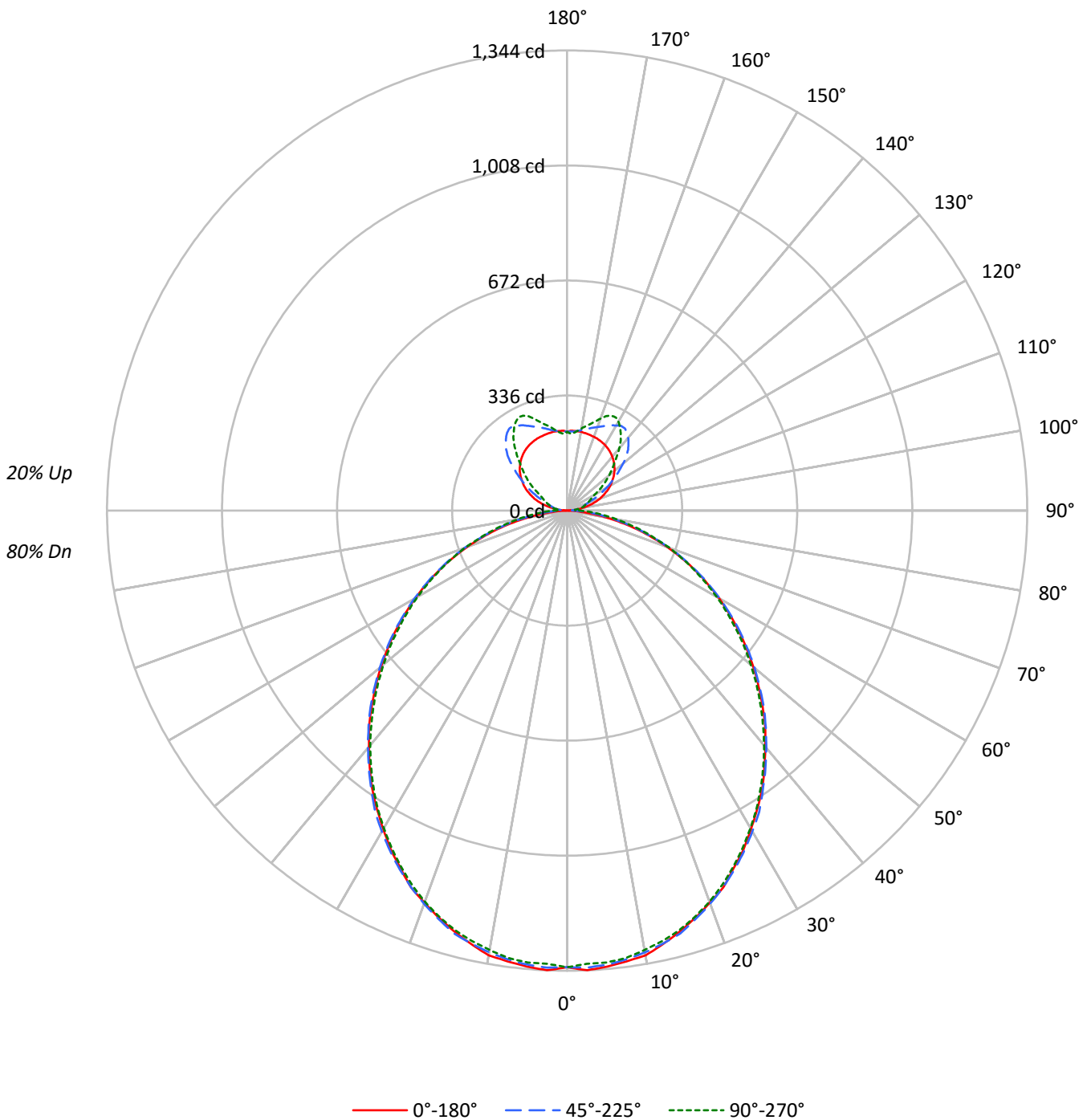
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7331	7331	7331
5°	7350	7179	7102
10°	7307	6984	6870
15°	7161	6791	6625
20°	7019	6517	6339
25°	6851	6240	6023
30°	6654	5954	5699
35°	6470	5636	5365
40°	6238	5309	5017
45°	6015	4989	4650
50°	5776	4638	4281
55°	5525	4280	3904
60°	5245	3881	3515
65°	4922	3449	3098
70°	4465	2945	2660
75°	3847	2334	2136
80°	2935	1680	1594
85°	1532	1004	1080



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	2.9
10°-20°	357.4	8.1
20°-30°	529.2	12.0
30°-40°	618.5	14.0
40°-50°	621.3	14.1
50°-60°	546.0	12.4
60°-70°	409.1	9.3
70°-80°	232.7	5.3
80°-90°	73.5	1.7
90°-100°	26.5	0.6
100°-110°	64.5	1.5
110°-120°	107.2	2.4
120°-130°	150.4	3.4
130°-140°	173.4	3.9
140°-150°	165.5	3.7
150°-160°	124.5	2.8
160°-170°	70.4	1.6
170°-180°	22.3	0.5
0°-30°	1012.6	22.9
0°-40°	1631.1	36.9
0°-60°	2798.4	63.3
0°-90°	3513.7	79.5
90°-120°	198.2	4.5
90°-150°	687.5	15.6
90°-180°	905.0	20.5
0°-180°	4418.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1337	1324	1331	1327	1325	127
15°	1273	1262	1278	1269	1268	359
25°	1152	1149	1156	1152	1148	531
35°	993	985	996	988	986	620
45°	807	806	812	803	798	623
55°	612	614	616	608	601	547
65°	413	414	416	413	408	408
75°	210	213	219	226	226	222
85°	36	47	64	79	82	47
90°	1	7	20	30	35	3
95°	19	19	19	21	23	21
105°	76	64	48	51	52	79
115°	124	155	95	77	76	123
125°	164	226	170	136	126	146
135°	194	246	252	209	194	150
145°	214	244	293	281	273	134
155°	226	239	273	301	306	104
165°	231	235	248	258	262	66
175°	234	231	231	231	228	22
180°	230	230	230	230	230	



TEST NUMBER: P395880

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1343.8	1341.6	1335.9	1330.3	1329.2	1328.0	1328.0	1326.9	1326.9	1329.2	1335.9
5°	1337.1	1335.9	1330.3	1324.7	1323.5	1323.5	1322.4	1322.4	1322.4	1324.7	1331.4
7.5°	1328.0	1325.8	1320.1	1314.5	1313.4	1313.4	1313.4	1312.2	1313.4	1314.5	1322.4
10°	1319.0	1317.9	1312.2	1305.5	1303.2	1303.2	1302.1	1299.8	1299.8	1302.1	1310.0
12.5°	1296.4	1295.3	1289.7	1285.2	1285.2	1286.3	1286.3	1287.4	1287.4	1289.7	1295.3
15°	1272.8	1271.6	1266.0	1261.5	1261.5	1261.5	1260.3	1260.3	1261.5	1268.2	1278.4
17.5°	1246.8	1245.7	1241.2	1236.6	1236.6	1236.6	1235.5	1235.5	1236.6	1240.0	1250.2
20°	1218.6	1217.5	1212.9	1208.4	1208.4	1208.4	1207.3	1208.4	1208.4	1212.9	1222.0
22.5°	1191.5	1189.3	1183.6	1179.1	1176.8	1176.8	1176.8	1175.7	1178.0	1181.4	1190.4
25°	1152.0	1150.9	1148.6	1145.2	1147.5	1148.6	1146.4	1144.1	1144.1	1148.6	1156.5
27.5°	1115.9	1113.7	1110.3	1106.9	1104.6	1105.8	1106.9	1109.1	1112.5	1113.7	1120.4
30°	1074.2	1073.0	1069.7	1065.1	1066.3	1067.4	1067.4	1067.4	1069.7	1079.8	1082.1
32.5°	1033.5	1032.4	1029.0	1024.5	1025.6	1026.8	1025.6	1026.8	1029.0	1033.5	1043.7
35°	992.9	990.7	987.3	986.2	985.0	985.0	985.0	986.2	987.3	990.7	996.3
37.5°	946.7	944.4	942.2	938.8	941.0	943.3	944.4	943.3	944.4	948.9	951.2
40°	900.4	899.3	897.0	894.8	895.9	897.0	895.9	899.3	901.5	903.8	904.9
42.5°	856.4	854.1	851.9	850.8	850.8	851.9	851.9	854.1	854.1	859.8	858.7
45°	806.8	805.6	804.5	804.5	805.6	805.6	805.6	806.8	807.9	811.3	812.4
47.5°	758.2	757.1	757.1	757.1	757.1	758.2	759.4	762.7	760.5	761.6	762.7
50°	709.7	708.6	708.6	708.6	710.8	710.8	713.1	714.2	715.4	713.1	714.2
52.5°	660.1	658.9	661.2	661.2	663.5	663.5	666.8	663.5	665.7	664.6	664.6
55°	611.6	610.4	612.7	611.6	613.8	613.8	616.1	617.2	616.1	616.1	616.1
57.5°	561.9	560.8	561.9	563.0	564.2	564.2	567.5	567.5	564.2	566.4	565.3
60°	512.3	511.1	512.3	513.4	514.5	514.5	515.6	513.4	515.6	516.8	515.6
62.5°	462.6	461.5	463.7	462.6	463.7	464.9	464.9	468.3	467.1	467.1	466.0
65°	413.0	411.8	411.8	411.8	413.0	414.1	415.2	416.4	416.4	417.5	416.4
67.5°	362.2	361.1	362.2	361.1	362.2	363.3	365.6	366.7	366.7	367.8	366.7
70°	310.3	311.4	310.3	311.4	312.5	313.7	314.8	317.1	317.1	317.1	317.1
72.5°	259.5	258.4	258.4	257.3	259.5	260.6	261.8	265.2	265.2	266.3	266.3
75°	209.9	207.6	208.7	207.6	212.1	213.3	213.3	216.6	217.8	220.0	218.9
77.5°	161.4	161.4	159.1	162.5	163.6	165.9	168.1	170.4	171.5	174.9	174.9
80°	115.1	115.1	114.0	116.2	120.7	121.9	125.2	126.4	129.8	132.0	133.1
82.5°	73.3	73.3	73.3	76.7	80.1	81.2	84.6	88.0	90.3	93.7	94.8
85°	36.1	38.4	38.4	42.9	45.1	47.4	48.5	53.0	56.4	60.9	64.3
87.5°	11.3	12.4	13.5	15.8	20.3	21.4	23.7	28.2	31.6	36.1	39.5
90°	1.1	1.1	2.3	3.4	5.6	6.8	9.0	11.3	14.7	18.1	20.3
92.5°	7.9	7.9	9.0	9.0	9.0	9.0	9.0	10.2	11.3	13.5	14.7
95°	19.2	30.5	18.1	16.9	19.2	19.2	20.3	19.2	19.2	19.2	19.2
97.5°	31.6	56.4	37.2	26.0	24.8	26.0	26.0	28.2	29.3	30.5	30.5
100°	46.3	71.1	65.4	42.9	35.0	33.8	33.8	33.8	35.0	36.1	37.2
102.5°	60.9	81.2	93.7	66.6	49.6	45.1	42.9	41.7	40.6	41.7	41.7
105°	75.6	91.4	115.1	90.3	71.1	64.3	57.5	49.6	48.5	48.5	48.5
107.5°	89.1	101.5	130.9	117.3	92.5	85.8	77.9	65.4	57.5	56.4	55.3
110°	101.5	111.7	142.2	139.9	116.2	106.1	99.3	85.8	74.5	66.6	63.2



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CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	112.8	121.9	150.1	159.1	142.2	129.8	119.6	106.1	93.7	83.5	75.6
115°	124.1	132.0	156.8	174.9	164.7	154.6	143.3	126.4	114.0	103.8	94.8
117.5°	135.4	142.2	163.6	186.2	183.9	177.1	168.1	147.8	133.1	123.0	112.8
120°	145.6	152.3	170.4	194.1	200.8	195.2	189.6	171.5	153.5	142.2	133.1
122.5°	154.6	160.2	177.1	200.8	213.3	212.1	206.5	194.1	176.0	162.5	151.2
125°	163.6	169.2	183.9	205.4	222.3	225.7	223.4	213.3	199.7	183.9	170.4
127.5°	172.6	177.1	190.7	209.9	229.0	235.8	236.9	230.2	220.0	206.5	191.8
130°	180.5	185.0	196.3	213.3	233.6	241.5	246.0	244.8	236.9	227.9	213.3
132.5°	187.3	190.7	202.0	216.6	235.8	244.8	251.6	257.3	251.6	244.8	234.7
135°	194.1	197.5	206.5	220.0	236.9	246.0	255.0	264.0	265.2	259.5	251.6
137.5°	199.7	202.0	211.0	222.3	236.9	246.0	255.0	267.4	274.2	271.9	265.2
140°	205.4	207.6	214.4	225.7	238.1	246.0	253.9	268.5	277.6	281.0	277.6
142.5°	209.9	212.1	217.8	227.9	238.1	244.8	252.7	266.3	278.7	285.5	287.7
145°	214.4	215.5	221.2	229.0	238.1	243.7	250.5	264.0	276.4	286.6	293.4
147.5°	217.8	218.9	222.3	230.2	238.1	242.6	248.2	259.5	271.9	283.2	293.4
150°	221.2	221.2	224.5	230.2	238.1	241.5	246.0	256.1	266.3	277.6	286.6
152.5°	223.4	223.4	226.8	231.3	236.9	240.3	244.8	252.7	261.8	271.9	281.0
155°	225.7	225.7	227.9	231.3	236.9	239.2	242.6	249.4	257.3	265.2	273.1
157.5°	227.9	227.9	229.0	232.4	235.8	238.1	241.5	247.1	252.7	259.5	266.3
160°	229.0	229.0	230.2	232.4	234.7	236.9	239.2	243.7	249.4	253.9	259.5
162.5°	230.2	230.2	231.3	232.4	234.7	235.8	236.9	241.5	244.8	249.4	253.9
165°	231.3	231.3	231.3	232.4	233.6	234.7	235.8	238.1	241.5	244.8	248.2
167.5°	232.4	232.4	232.4	232.4	233.6	233.6	234.7	235.8	238.1	240.3	242.6
170°	233.6	232.4	232.4	233.6	232.4	232.4	233.6	234.7	234.7	236.9	238.1
172.5°	233.6	233.6	232.4	232.4	232.4	232.4	232.4	232.4	232.4	233.6	234.7
175°	233.6	233.6	232.4	232.4	232.4	231.3	231.3	231.3	231.3	231.3	231.3
177.5°	233.6	233.6	232.4	232.4	231.3	231.3	231.3	231.3	231.3	231.3	231.3
180°	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1342.7	1337.1	1334.8	1333.7	1332.6	1331.4	1329.2	1326.9	1324.7	1324.7
5°	1337.1	1331.4	1329.2	1328.0	1326.9	1325.8	1324.7	1324.7	1324.7	1324.7
7.5°	1328.0	1322.4	1320.1	1319.0	1319.0	1317.9	1317.9	1317.9	1316.8	1317.9
10°	1314.5	1308.9	1307.7	1306.6	1305.5	1303.2	1303.2	1303.2	1302.1	1303.2
12.5°	1297.6	1291.9	1290.8	1289.7	1288.5	1287.4	1287.4	1286.3	1286.3	1287.4
15°	1280.6	1272.8	1270.5	1270.5	1269.4	1268.2	1269.4	1268.2	1268.2	1268.2
17.5°	1255.8	1252.4	1249.1	1246.8	1245.7	1244.5	1244.5	1243.4	1243.4	1243.4
20°	1223.1	1223.1	1223.1	1217.5	1216.3	1215.2	1215.2	1215.2	1215.2	1215.2
22.5°	1191.5	1185.9	1190.4	1187.0	1184.7	1182.5	1183.6	1183.6	1183.6	1183.6
25°	1156.5	1152.0	1153.1	1154.3	1152.0	1148.6	1148.6	1148.6	1148.6	1147.5
27.5°	1119.3	1115.9	1114.8	1115.9	1118.2	1115.9	1112.5	1109.1	1110.3	1110.3
30°	1078.7	1077.6	1076.4	1074.2	1076.4	1077.6	1071.9	1070.8	1070.8	1070.8
32.5°	1038.1	1036.9	1033.5	1031.3	1032.4	1034.7	1032.4	1030.2	1030.2	1030.2
35°	997.4	992.9	989.5	988.4	988.4	990.7	989.5	986.2	986.2	986.2
37.5°	950.0	951.2	945.5	944.4	944.4	944.4	946.7	941.0	942.2	941.0
40°	903.8	904.9	901.5	898.1	899.3	897.0	900.4	894.8	894.8	894.8
42.5°	857.5	855.3	856.4	849.6	850.8	850.8	851.9	848.5	847.4	846.2
45°	810.1	807.9	806.8	803.4	803.4	802.2	802.2	797.7	797.7	797.7
47.5°	760.5	759.4	757.1	754.8	754.8	753.7	751.5	750.3	749.2	749.2
50°	713.1	709.7	706.3	707.5	706.3	705.2	702.9	701.8	700.7	699.6
52.5°	662.3	662.3	657.8	657.8	657.8	656.7	654.4	652.2	652.2	651.0
55°	612.7	611.6	608.2	607.0	608.2	607.0	604.8	602.5	602.5	601.4
57.5°	563.0	560.8	559.6	559.6	558.5	558.5	555.1	552.9	554.0	552.9
60°	512.3	512.3	511.1	510.0	510.0	508.9	505.5	505.5	505.5	504.4
62.5°	463.7	463.7	461.5	460.4	461.5	460.4	459.2	458.1	457.0	455.8
65°	413.0	414.1	411.8	413.0	413.0	410.7	410.7	409.6	409.6	408.5
67.5°	365.6	365.6	364.4	364.4	365.6	364.4	364.4	363.3	363.3	362.2
70°	317.1	319.3	318.2	318.2	318.2	317.1	317.1	317.1	315.9	317.1
72.5°	268.5	268.5	268.5	268.5	268.5	269.7	269.7	269.7	269.7	268.5
75°	223.4	224.5	223.4	224.5	225.7	225.7	225.7	225.7	226.8	225.7
77.5°	179.4	180.5	180.5	182.8	182.8	182.8	183.9	183.9	183.9	183.9
80°	137.7	138.8	139.9	142.2	142.2	144.4	145.6	145.6	145.6	145.6
82.5°	99.3	102.7	103.8	107.2	108.3	108.3	110.6	111.7	111.7	111.7
85°	68.8	72.2	74.5	76.7	79.0	79.0	81.2	81.2	82.4	82.4
87.5°	42.9	46.3	48.5	51.9	53.0	54.2	55.3	56.4	57.5	57.5
90°	23.7	26.0	28.2	30.5	30.5	31.6	32.7	33.8	35.0	35.0
92.5°	16.9	18.1	20.3	21.4	21.4	22.6	23.7	23.7	24.8	24.8
95°	19.2	20.3	20.3	21.4	21.4	21.4	22.6	22.6	22.6	22.6
97.5°	29.3	29.3	29.3	28.2	28.2	28.2	28.2	28.2	28.2	28.2
100°	38.4	39.5	39.5	39.5	40.6	40.6	40.6	40.6	39.5	39.5
102.5°	42.9	44.0	45.1	46.3	46.3	46.3	47.4	47.4	47.4	47.4
105°	48.5	48.5	49.6	50.8	50.8	50.8	51.9	51.9	51.9	51.9
107.5°	55.3	55.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
110°	63.2	63.2	63.2	62.1	63.2	62.1	62.1	62.1	62.1	62.1



TEST NUMBER: P395880

CATALOG NUMBER: I3-WL-50L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	72.2	71.1	71.1	70.0	70.0	70.0	68.8	68.8	68.8	68.8
115°	86.9	81.2	79.0	76.7	76.7	76.7	75.6	75.6	75.6	75.6
117.5°	104.9	97.0	92.5	88.0	86.9	85.8	83.5	83.5	82.4	82.4
120°	124.1	116.2	109.4	103.8	101.5	100.4	97.0	94.8	92.5	92.5
122.5°	142.2	134.3	127.5	121.9	119.6	117.3	114.0	111.7	109.4	109.4
125°	160.2	152.3	145.6	139.9	136.5	134.3	130.9	128.6	126.4	126.4
127.5°	179.4	169.2	162.5	156.8	153.5	152.3	147.8	145.6	143.3	143.3
130°	200.8	188.4	179.4	172.6	170.4	168.1	164.7	162.5	160.2	160.2
132.5°	222.3	209.9	199.7	190.7	187.3	185.0	180.5	178.3	176.0	176.0
135°	242.6	231.3	221.2	212.1	208.7	205.4	200.8	196.3	194.1	194.1
137.5°	258.4	250.5	241.5	233.6	230.2	226.8	222.3	217.8	214.4	215.5
140°	271.9	265.2	259.5	253.9	250.5	248.2	243.7	240.3	236.9	236.9
142.5°	284.3	278.7	273.1	268.5	267.4	266.3	262.9	259.5	257.3	257.3
145°	295.6	292.2	287.7	282.1	281.0	279.8	276.4	274.2	273.1	273.1
147.5°	299.0	300.1	299.0	295.6	294.5	293.4	291.1	288.9	287.7	287.7
150°	296.7	301.3	303.5	303.5	303.5	303.5	303.5	301.3	300.1	300.1
152.5°	290.0	296.7	301.3	304.6	305.8	306.9	306.9	308.0	306.9	306.9
155°	282.1	288.9	295.6	299.0	301.3	302.4	304.6	305.8	306.9	305.8
157.5°	273.1	278.7	283.2	290.0	292.2	294.5	296.7	299.0	300.1	299.0
160°	265.2	269.7	273.1	277.6	278.7	281.0	283.2	284.3	286.6	285.5
162.5°	257.3	260.6	264.0	266.3	268.5	269.7	271.9	273.1	274.2	273.1
165°	251.6	253.9	255.0	257.3	258.4	259.5	260.6	261.8	261.8	261.8
167.5°	244.8	247.1	248.2	249.4	250.5	251.6	251.6	252.7	252.7	252.7
170°	239.2	240.3	241.5	242.6	242.6	243.7	243.7	243.7	244.8	243.7
172.5°	234.7	234.7	234.7	235.8	235.8	235.8	235.8	235.8	235.8	234.7
175°	232.4	232.4	231.3	231.3	231.3	231.3	231.3	230.2	229.0	227.9
177.5°	231.3	230.2	230.2	229.0	229.0	229.0	227.9	226.8	225.7	224.5
180°	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2	230.2

(END OF REPORT)