

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: P395083

Luminaire Tested: **I3-WL-50L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-WL-50L940-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

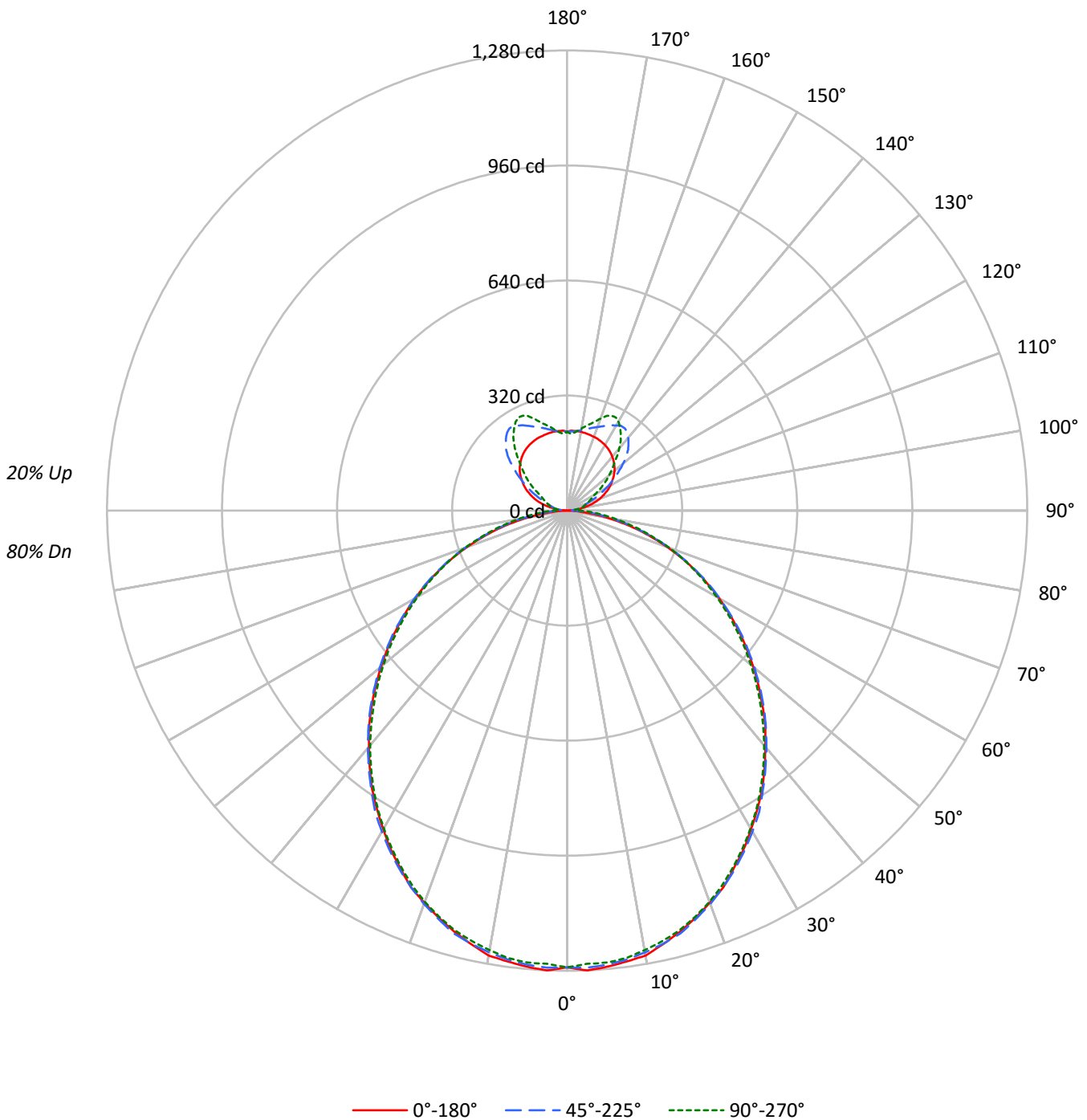
Lumens per Lamp: N/A
Luminaire Lumens: 4209.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 42.9
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°	6983	6983	6983
5°	7002	6839	6766
10°	6961	6653	6544
15°	6822	6469	6311
20°	6687	6208	6039
25°	6526	5945	5738
30°	6339	5672	5429
35°	6164	5369	5111
40°	5942	5058	4779
45°	5731	4752	4431
50°	5502	4418	4079
55°	5263	4077	3719
60°	4996	3698	3349
65°	4689	3285	2951
70°	4253	2806	2534
75°	3663	2224	2035
80°	2797	1601	1518
85°	1460	957	1029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	2.9
10°-20°	340.5	8.1
20°-30°	504.1	12.0
30°-40°	589.2	14.0
40°-50°	591.9	14.1
50°-60°	520.2	12.4
60°-70°	389.8	9.3
70°-80°	221.7	5.3
80°-90°	70.0	1.7
90°-100°	25.2	0.6
100°-110°	61.5	1.5
110°-120°	102.1	2.4
120°-130°	143.3	3.4
130°-140°	165.1	3.9
140°-150°	157.7	3.7
150°-160°	118.6	2.8
160°-170°	67.1	1.6
170°-180°	21.3	0.5
0°-30°	964.7	22.9
0°-40°	1553.9	36.9
0°-60°	2666.0	63.3
0°-90°	3347.4	79.5
90°-120°	188.8	4.5
90°-150°	654.9	15.6
90°-180°	862.0	20.5
0°-180°	4209.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1274	1261	1268	1264	1262	121
15°	1212	1202	1218	1209	1208	342
25°	1098	1094	1102	1098	1093	506
35°	946	938	949	942	940	591
45°	769	768	774	765	760	593
55°	583	585	587	579	573	521
65°	393	394	397	393	389	389
75°	200	203	209	215	215	212
85°	34	45	61	75	78	45
90°	1	6	19	29	33	3
95°	18	18	18	20	22	20
105°	72	61	46	48	49	75
115°	118	147	90	73	72	117
125°	156	215	162	130	120	139
135°	185	234	240	199	185	143
145°	204	232	280	268	260	128
155°	215	228	260	287	291	99
165°	220	224	236	246	249	62
175°	222	220	220	220	217	21
180°	219	219	219	219	219	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5
2.5°	1280.3	1278.1	1272.7	1267.3	1266.2	1265.2	1265.2	1264.1	1264.1	1266.2	1272.7
5°	1273.7	1272.7	1267.3	1262.0	1260.8	1260.8	1259.8	1259.8	1259.8	1262.0	1268.4
7.5°	1265.2	1263.0	1257.7	1252.3	1251.2	1251.2	1251.2	1250.2	1251.2	1252.3	1259.8
10°	1256.6	1255.5	1250.2	1243.7	1241.5	1241.5	1240.4	1238.3	1238.3	1240.4	1247.9
12.5°	1235.1	1234.0	1228.6	1224.4	1224.4	1225.4	1225.4	1226.5	1226.5	1228.6	1234.0
15°	1212.5	1211.4	1206.1	1201.8	1201.8	1201.8	1200.7	1200.7	1201.8	1208.2	1217.8
17.5°	1187.8	1186.7	1182.4	1178.1	1178.1	1178.1	1177.0	1177.0	1178.1	1181.4	1191.0
20°	1160.9	1159.8	1155.5	1151.3	1151.3	1151.3	1150.2	1151.3	1151.3	1155.5	1164.1
22.5°	1135.1	1133.0	1127.6	1123.3	1121.1	1121.1	1121.1	1120.1	1122.2	1125.5	1134.0
25°	1097.5	1096.4	1094.3	1091.0	1093.2	1094.3	1092.1	1090.0	1090.0	1094.3	1101.8
27.5°	1063.0	1060.9	1057.7	1054.5	1052.4	1053.4	1054.5	1056.6	1059.9	1060.9	1067.4
30°	1023.3	1022.2	1019.0	1014.7	1015.8	1016.9	1016.9	1016.9	1019.0	1028.7	1030.8
32.5°	984.6	983.6	980.3	976.0	977.1	978.2	977.1	978.2	980.3	984.6	994.3
35°	946.0	943.8	940.6	939.5	938.4	938.4	938.4	939.5	940.6	943.8	949.1
37.5°	901.8	899.7	897.6	894.3	896.5	898.6	899.7	898.6	899.7	904.0	906.1
40°	857.7	856.7	854.6	852.4	853.5	854.6	853.5	856.7	858.9	861.0	862.1
42.5°	815.9	813.7	811.6	810.5	810.5	811.6	811.6	813.7	813.7	819.1	818.0
45°	768.6	767.5	766.4	766.4	767.5	767.5	767.5	768.6	769.6	772.9	773.9
47.5°	722.4	721.2	721.2	721.2	721.2	722.4	723.4	726.6	724.5	725.6	726.6
50°	676.1	675.1	675.1	675.1	677.2	677.2	679.4	680.4	681.5	679.4	680.4
52.5°	628.8	627.7	629.9	629.9	632.1	632.1	635.2	632.1	634.2	633.1	633.1
55°	582.6	581.5	583.7	582.6	584.7	584.7	586.9	588.0	586.9	586.9	586.9
57.5°	535.3	534.2	535.3	536.4	537.5	537.5	540.7	540.7	537.5	539.6	538.5
60°	488.0	487.0	488.0	489.1	490.2	490.2	491.2	489.1	491.2	492.3	491.2
62.5°	440.7	439.6	441.8	440.7	441.8	442.8	442.8	446.1	445.0	445.0	444.0
65°	393.4	392.3	392.3	392.3	393.4	394.5	395.6	396.6	396.6	397.7	396.6
67.5°	345.1	343.9	345.1	343.9	345.1	346.1	348.3	349.3	349.3	350.5	349.3
70°	295.6	296.7	295.6	296.7	297.7	298.8	299.9	302.1	302.1	302.1	302.1
72.5°	247.2	246.2	246.2	245.1	247.2	248.3	249.4	252.6	252.6	253.7	253.7
75°	199.9	197.8	198.9	197.8	202.1	203.2	203.2	206.4	207.4	209.6	208.6
77.5°	153.7	153.7	151.5	154.8	155.8	158.0	160.2	162.3	163.4	166.6	166.6
80°	109.7	109.7	108.6	110.7	115.1	116.1	119.3	120.4	123.6	125.7	126.8
82.5°	69.8	69.8	69.8	73.1	76.3	77.4	80.6	83.9	86.0	89.2	90.3
85°	34.4	36.6	36.6	40.9	43.0	45.1	46.2	50.5	53.8	58.0	61.3
87.5°	10.8	11.8	12.9	15.0	19.3	20.4	22.6	26.8	30.1	34.4	37.6
90°	1.1	1.1	2.1	3.3	5.4	6.4	8.6	10.8	14.0	17.2	19.3
92.5°	7.5	7.5	8.6	8.6	8.6	8.6	8.6	9.7	10.8	12.9	14.0
95°	18.3	29.1	17.2	16.2	18.3	18.3	19.3	18.3	18.3	18.3	18.3
97.5°	30.1	53.8	35.5	24.7	23.7	24.7	24.7	26.8	28.0	29.1	29.1
100°	44.1	67.7	62.3	40.9	33.3	32.2	32.2	32.2	33.3	34.4	35.5
102.5°	58.0	77.4	89.2	63.4	47.3	43.0	40.9	39.7	38.7	39.7	39.7
105°	72.1	87.1	109.7	86.0	67.7	61.3	54.8	47.3	46.2	46.2	46.2
107.5°	84.9	96.8	124.7	111.8	88.1	81.7	74.2	62.3	54.8	53.8	52.6
110°	96.8	106.4	135.5	133.3	110.7	101.0	94.6	81.7	70.9	63.4	60.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	107.5	116.1	143.0	151.5	135.5	123.6	113.9	101.0	89.2	79.6	72.1
115°	118.2	125.7	149.4	166.6	156.9	147.3	136.5	120.4	108.6	98.9	90.3
117.5°	129.0	135.5	155.8	177.4	175.2	168.7	160.2	140.8	126.8	117.2	107.5
120°	138.6	145.1	162.3	184.9	191.3	186.0	180.6	163.4	146.2	135.5	126.8
122.5°	147.3	152.7	168.7	191.3	203.2	202.1	196.7	184.9	167.7	154.8	144.0
125°	155.8	161.2	175.2	195.7	211.7	215.0	212.8	203.2	190.3	175.2	162.3
127.5°	164.5	168.7	181.6	199.9	218.2	224.6	225.7	219.2	209.6	196.7	182.7
130°	172.0	176.2	187.0	203.2	222.5	230.0	234.3	233.3	225.7	217.1	203.2
132.5°	178.5	181.6	192.4	206.4	224.6	233.3	239.7	245.1	239.7	233.3	223.6
135°	184.9	188.1	196.7	209.6	225.7	234.3	242.9	251.6	252.6	247.2	239.7
137.5°	190.3	192.4	201.0	211.7	225.7	234.3	242.9	254.7	261.2	259.1	252.6
140°	195.7	197.8	204.2	215.0	226.8	234.3	241.9	255.8	264.5	267.6	264.5
142.5°	199.9	202.1	207.4	217.1	226.8	233.3	240.8	253.7	265.5	272.0	274.1
145°	204.2	205.3	210.7	218.2	226.8	232.1	238.6	251.6	263.3	273.0	279.5
147.5°	207.4	208.6	211.7	219.2	226.8	231.1	236.5	247.2	259.1	269.8	279.5
150°	210.7	210.7	214.0	219.2	226.8	230.0	234.3	244.0	253.7	264.5	273.0
152.5°	212.8	212.8	216.1	220.4	225.7	229.0	233.3	240.8	249.4	259.1	267.6
155°	215.0	215.0	217.1	220.4	225.7	227.9	231.1	237.5	245.1	252.6	260.1
157.5°	217.1	217.1	218.2	221.5	224.6	226.8	230.0	235.4	240.8	247.2	253.7
160°	218.2	218.2	219.2	221.5	223.6	225.7	227.9	232.1	237.5	241.9	247.2
162.5°	219.2	219.2	220.4	221.5	223.6	224.6	225.7	230.0	233.3	237.5	241.9
165°	220.4	220.4	220.4	221.5	222.5	223.6	224.6	226.8	230.0	233.3	236.5
167.5°	221.5	221.5	221.5	221.5	222.5	222.5	223.6	224.6	226.8	229.0	231.1
170°	222.5	221.5	221.5	222.5	221.5	221.5	222.5	223.6	223.6	225.7	226.8
172.5°	222.5	222.5	221.5	221.5	221.5	221.5	221.5	221.5	221.5	222.5	223.6
175°	222.5	222.5	221.5	221.5	221.5	220.4	220.4	220.4	220.4	220.4	220.4
177.5°	222.5	222.5	221.5	221.5	220.4	220.4	220.4	220.4	220.4	220.4	220.4
180°	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5	1270.5
2.5°	1279.1	1273.7	1271.6	1270.5	1269.5	1268.4	1266.2	1264.1	1262.0	1262.0
5°	1273.7	1268.4	1266.2	1265.2	1264.1	1263.0	1262.0	1262.0	1262.0	1262.0
7.5°	1265.2	1259.8	1257.7	1256.6	1256.6	1255.5	1255.5	1255.5	1254.4	1255.5
10°	1252.3	1246.9	1245.8	1244.8	1243.7	1241.5	1241.5	1241.5	1240.4	1241.5
12.5°	1236.1	1230.8	1229.7	1228.6	1227.5	1226.5	1226.5	1225.4	1225.4	1226.5
15°	1220.0	1212.5	1210.3	1210.3	1209.3	1208.2	1209.3	1208.2	1208.2	1208.2
17.5°	1196.4	1193.1	1189.9	1187.8	1186.7	1185.6	1185.6	1184.5	1184.5	1184.5
20°	1165.2	1165.2	1165.2	1159.8	1158.8	1157.7	1157.7	1157.7	1157.7	1157.7
22.5°	1135.1	1129.7	1134.0	1130.8	1128.7	1126.5	1127.6	1127.6	1127.6	1127.6
25°	1101.8	1097.5	1098.5	1099.6	1097.5	1094.3	1094.3	1094.3	1094.3	1093.2
27.5°	1066.3	1063.0	1062.0	1063.0	1065.3	1063.0	1059.9	1056.6	1057.7	1057.7
30°	1027.6	1026.6	1025.4	1023.3	1025.4	1026.6	1021.2	1020.1	1020.1	1020.1
32.5°	989.0	987.8	984.6	982.4	983.6	985.7	983.6	981.4	981.4	981.4
35°	950.2	946.0	942.7	941.6	941.6	943.8	942.7	939.5	939.5	939.5
37.5°	905.1	906.1	900.7	899.7	899.7	899.7	901.8	896.5	897.6	896.5
40°	861.0	862.1	858.9	855.6	856.7	854.6	857.7	852.4	852.4	852.4
42.5°	817.0	814.7	815.9	809.4	810.5	810.5	811.6	808.3	807.2	806.2
45°	771.8	769.6	768.6	765.3	765.3	764.2	764.2	760.0	760.0	760.0
47.5°	724.5	723.4	721.2	719.1	719.1	718.1	715.8	714.8	713.7	713.7
50°	679.4	676.1	672.9	674.0	672.9	671.8	669.7	668.6	667.5	666.5
52.5°	631.0	631.0	626.7	626.7	626.7	625.6	623.5	621.3	621.3	620.2
55°	583.7	582.6	579.3	578.3	579.3	578.3	576.2	574.0	574.0	572.9
57.5°	536.4	534.2	533.2	533.2	532.1	532.1	528.8	526.7	527.8	526.7
60°	488.0	488.0	487.0	485.8	485.8	484.8	481.6	481.6	481.6	480.5
62.5°	441.8	441.8	439.6	438.6	439.6	438.6	437.5	436.4	435.3	434.3
65°	393.4	394.5	392.3	393.4	393.4	391.3	391.3	390.2	390.2	389.1
67.5°	348.3	348.3	347.2	347.2	348.3	347.2	347.2	346.1	346.1	345.1
70°	302.1	304.2	303.1	303.1	303.1	302.1	302.1	302.1	301.0	302.1
72.5°	255.8	255.8	255.8	255.8	255.8	256.9	256.9	256.9	256.9	255.8
75°	212.8	214.0	212.8	214.0	215.0	215.0	215.0	215.0	216.1	215.0
77.5°	170.9	172.0	172.0	174.1	174.1	174.1	175.2	175.2	175.2	175.2
80°	131.1	132.2	133.3	135.5	135.5	137.6	138.6	138.6	138.6	138.6
82.5°	94.6	97.8	98.9	102.1	103.2	103.2	105.3	106.4	106.4	106.4
85°	65.6	68.8	70.9	73.1	75.2	75.2	77.4	77.4	78.5	78.5
87.5°	40.9	44.1	46.2	49.4	50.5	51.6	52.6	53.8	54.8	54.8
90°	22.6	24.7	26.8	29.1	29.1	30.1	31.2	32.2	33.3	33.3
92.5°	16.2	17.2	19.3	20.4	20.4	21.5	22.6	22.6	23.7	23.7
95°	18.3	19.3	19.3	20.4	20.4	20.4	21.5	21.5	21.5	21.5
97.5°	28.0	28.0	28.0	26.8	26.8	26.8	26.8	26.8	26.8	26.8
100°	36.6	37.6	37.6	37.6	38.7	38.7	38.7	38.7	37.6	37.6
102.5°	40.9	41.9	43.0	44.1	44.1	44.1	45.1	45.1	45.1	45.1
105°	46.2	46.2	47.3	48.4	48.4	48.4	49.4	49.4	49.4	49.4
107.5°	52.6	52.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
110°	60.2	60.2	60.2	59.2	60.2	59.2	59.2	59.2	59.2	59.2



TEST NUMBER: P395083

CATALOG NUMBER: I3-WL-50L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	68.8	67.7	67.7	66.7	66.7	66.7	65.6	65.6	65.6	65.6
115°	82.7	77.4	75.2	73.1	73.1	73.1	72.1	72.1	72.1	72.1
117.5°	100.0	92.5	88.1	83.9	82.7	81.7	79.6	79.6	78.5	78.5
120°	118.2	110.7	104.3	98.9	96.8	95.6	92.5	90.3	88.1	88.1
122.5°	135.5	127.9	121.5	116.1	113.9	111.8	108.6	106.4	104.3	104.3
125°	152.7	145.1	138.6	133.3	130.1	127.9	124.7	122.6	120.4	120.4
127.5°	170.9	161.2	154.8	149.4	146.2	145.1	140.8	138.6	136.5	136.5
130°	191.3	179.5	170.9	164.5	162.3	160.2	156.9	154.8	152.7	152.7
132.5°	211.7	199.9	190.3	181.6	178.5	176.2	172.0	169.8	167.7	167.7
135°	231.1	220.4	210.7	202.1	198.9	195.7	191.3	187.0	184.9	184.9
137.5°	246.2	238.6	230.0	222.5	219.2	216.1	211.7	207.4	204.2	205.3
140°	259.1	252.6	247.2	241.9	238.6	236.5	232.1	229.0	225.7	225.7
142.5°	270.9	265.5	260.1	255.8	254.7	253.7	250.4	247.2	245.1	245.1
145°	281.6	278.4	274.1	268.7	267.6	266.6	263.3	261.2	260.1	260.1
147.5°	284.9	285.9	284.9	281.6	280.5	279.5	277.4	275.1	274.1	274.1
150°	282.7	287.0	289.2	289.2	289.2	289.2	289.2	287.0	285.9	285.9
152.5°	276.3	282.7	287.0	290.2	291.3	292.4	292.4	293.4	292.4	292.4
155°	268.7	275.1	281.6	284.9	287.0	288.0	290.2	291.3	292.4	291.3
157.5°	260.1	265.5	269.8	276.3	278.4	280.5	282.7	284.9	285.9	284.9
160°	252.6	256.9	260.1	264.5	265.5	267.6	269.8	270.9	273.0	272.0
162.5°	245.1	248.3	251.6	253.7	255.8	256.9	259.1	260.1	261.2	260.1
165°	239.7	241.9	242.9	245.1	246.2	247.2	248.3	249.4	249.4	249.4
167.5°	233.3	235.4	236.5	237.5	238.6	239.7	239.7	240.8	240.8	240.8
170°	227.9	229.0	230.0	231.1	231.1	232.1	232.1	232.1	233.3	232.1
172.5°	223.6	223.6	223.6	224.6	224.6	224.6	224.6	224.6	224.6	223.6
175°	221.5	221.5	220.4	220.4	220.4	220.4	220.4	219.2	218.2	217.1
177.5°	220.4	219.2	219.2	218.2	218.2	218.2	217.1	216.1	215.0	214.0
180°	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2	219.2

(END OF REPORT)