

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: P395082

Luminaire Tested: **I3-WL-50L935-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395082
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-50L935-1D-UNV-STD-W-4
Description: CORELITE I3, DOWNLIGHT TRAY
5000 LUMENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

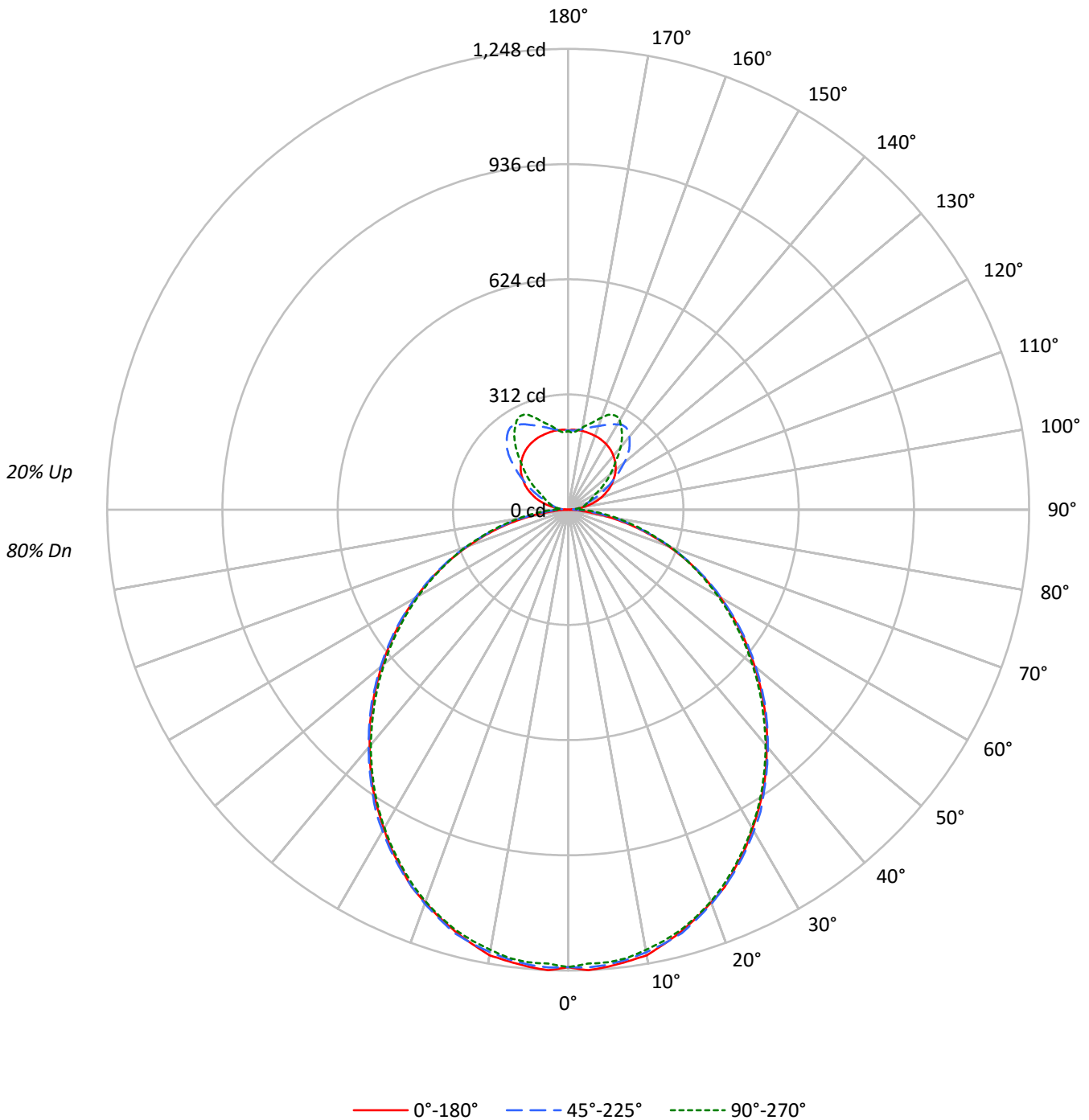
Lumens per Lamp: N/A
Luminaire Lumens: 4104.4 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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°	6810	6810	6810
5°	6827	6669	6597
10°	6788	6488	6382
15°	6652	6308	6154
20°	6520	6054	5889
25°	6364	5797	5595
30°	6181	5530	5294
35°	6010	5236	4984
40°	5794	4932	4660
45°	5587	4635	4321
50°	5366	4309	3977
55°	5132	3975	3627
60°	4872	3606	3266
65°	4572	3204	2877
70°	4148	2735	2470
75°	3572	2169	1985
80°	2726	1560	1481
85°	1426	934	1003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.9
10°-20°	332.0	8.1
20°-30°	491.6	12.0
30°-40°	574.5	14.0
40°-50°	577.1	14.1
50°-60°	507.2	12.4
60°-70°	380.0	9.3
70°-80°	216.1	5.3
80°-90°	68.2	1.7
90°-100°	24.6	0.6
100°-110°	59.9	1.5
110°-120°	99.6	2.4
120°-130°	139.7	3.4
130°-140°	161.0	3.9
140°-150°	153.8	3.7
150°-160°	115.7	2.8
160°-170°	65.4	1.6
170°-180°	20.7	0.5
0°-30°	940.7	22.9
0°-40°	1515.2	36.9
0°-60°	2599.6	63.3
0°-90°	3264.0	79.5
90°-120°	184.1	4.5
90°-150°	638.6	15.6
90°-180°	840.0	20.5
0°-180°	4104.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1242	1229	1237	1233	1230	118
15°	1182	1172	1188	1179	1178	333
25°	1070	1067	1074	1070	1066	493
35°	922	915	926	918	916	576
45°	749	748	755	746	741	578
55°	568	570	572	565	559	508
65°	384	385	387	384	379	379
75°	195	198	203	210	210	207
85°	34	44	60	73	76	44
90°	1	6	19	28	32	3
95°	18	18	18	20	21	20
105°	70	60	45	47	48	73
115°	115	144	88	71	70	114
125°	152	210	158	127	117	136
135°	180	228	234	194	180	139
145°	199	226	272	261	254	125
155°	210	222	254	280	284	97
165°	215	218	231	240	243	61
175°	217	215	215	215	212	21
180°	214	214	214	214	214	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9
2.5°	1248.4	1246.2	1241.0	1235.7	1234.7	1233.6	1233.6	1232.6	1232.6	1234.7	1241.0
5°	1242.0	1241.0	1235.7	1230.5	1229.4	1229.4	1228.4	1228.4	1228.4	1230.5	1236.8
7.5°	1233.6	1231.6	1226.3	1221.1	1220.0	1220.0	1220.0	1219.0	1220.0	1221.1	1228.4
10°	1225.3	1224.3	1219.0	1212.7	1210.6	1210.6	1209.5	1207.5	1207.5	1209.5	1216.9
12.5°	1204.3	1203.2	1198.0	1193.9	1193.9	1194.9	1194.9	1195.9	1195.9	1198.0	1203.2
15°	1182.3	1181.2	1176.0	1171.8	1171.8	1171.8	1170.8	1170.8	1171.8	1178.1	1187.5
17.5°	1158.2	1157.1	1153.0	1148.7	1148.7	1148.7	1147.7	1147.7	1148.7	1151.9	1161.3
20°	1132.0	1130.9	1126.7	1122.6	1122.6	1122.6	1121.5	1122.6	1122.6	1126.7	1135.1
22.5°	1106.8	1104.7	1099.5	1095.3	1093.2	1093.2	1093.2	1092.2	1094.2	1097.4	1105.8
25°	1070.1	1069.1	1067.0	1063.9	1065.9	1067.0	1064.9	1062.8	1062.8	1067.0	1074.4
27.5°	1036.6	1034.5	1031.4	1028.2	1026.1	1027.2	1028.2	1030.3	1033.5	1034.5	1040.8
30°	997.8	996.8	993.6	989.5	990.5	991.5	991.5	991.5	993.6	1003.1	1005.1
32.5°	960.1	959.1	955.9	951.7	952.8	953.8	952.8	953.8	955.9	960.1	969.5
35°	922.4	920.2	917.1	916.1	915.0	915.0	915.0	916.1	917.1	920.2	925.5
37.5°	879.3	877.3	875.2	872.0	874.2	876.2	877.3	876.2	877.3	881.5	883.6
40°	836.4	835.3	833.3	831.2	832.2	833.3	832.2	835.3	837.5	839.6	840.6
42.5°	795.6	793.4	791.3	790.3	790.3	791.3	791.3	793.4	793.4	798.7	797.6
45°	749.4	748.4	747.3	747.3	748.4	748.4	748.4	749.4	750.4	753.6	754.7
47.5°	704.4	703.3	703.3	703.3	703.3	704.4	705.4	708.5	706.5	707.5	708.5
50°	659.3	658.2	658.2	658.2	660.3	660.3	662.5	663.5	664.5	662.5	663.5
52.5°	613.1	612.1	614.2	614.2	616.3	616.3	619.4	616.3	618.4	617.3	617.3
55°	568.1	567.1	569.1	568.1	570.2	570.2	572.3	573.3	572.3	572.3	572.3
57.5°	521.9	520.9	521.9	523.1	524.1	524.1	527.2	527.2	524.1	526.2	525.1
60°	475.9	474.8	475.9	476.9	477.9	477.9	479.0	476.9	479.0	480.0	479.0
62.5°	429.7	428.7	430.8	429.7	430.8	431.8	431.8	435.0	433.9	433.9	432.9
65°	383.6	382.5	382.5	382.5	383.6	384.7	385.7	386.8	386.8	387.8	386.8
67.5°	336.5	335.4	336.5	335.4	336.5	337.5	339.6	340.6	340.6	341.7	340.6
70°	288.3	289.3	288.3	289.3	290.3	291.4	292.4	294.5	294.5	294.5	294.5
72.5°	241.1	240.0	240.0	239.0	241.1	242.1	243.1	246.3	246.3	247.4	247.4
75°	194.9	192.9	193.9	192.9	197.1	198.1	198.1	201.2	202.2	204.4	203.4
77.5°	149.9	149.9	147.7	150.9	152.0	154.0	156.2	158.3	159.3	162.5	162.5
80°	106.9	106.9	105.9	108.0	112.2	113.2	116.3	117.4	120.5	122.6	123.6
82.5°	68.1	68.1	68.1	71.3	74.4	75.4	78.6	81.8	83.9	87.0	88.1
85°	33.6	35.6	35.6	39.9	41.9	44.0	45.0	49.2	52.4	56.6	59.8
87.5°	10.5	11.5	12.6	14.6	18.9	19.9	22.0	26.2	29.4	33.6	36.7
90°	1.0	1.0	2.1	3.2	5.3	6.3	8.4	10.5	13.6	16.8	18.9
92.5°	7.3	7.3	8.4	8.4	8.4	8.4	8.4	9.5	10.5	12.6	13.6
95°	17.8	28.3	16.8	15.8	17.8	17.8	18.9	17.8	17.8	17.8	17.8
97.5°	29.4	52.4	34.6	24.1	23.1	24.1	24.1	26.2	27.3	28.3	28.3
100°	43.0	66.0	60.8	39.9	32.5	31.4	31.4	31.4	32.5	33.6	34.6
102.5°	56.6	75.4	87.0	61.8	46.1	41.9	39.9	38.7	37.7	38.7	38.7
105°	70.3	84.9	106.9	83.9	66.0	59.8	53.5	46.1	45.0	45.0	45.0
107.5°	82.8	94.4	121.6	109.0	85.9	79.6	72.3	60.8	53.5	52.4	51.3
110°	94.4	103.8	132.1	130.0	108.0	98.5	92.2	79.6	69.1	61.8	58.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	104.8	113.2	139.4	147.7	132.1	120.5	111.1	98.5	87.0	77.6	70.3
115°	115.3	122.6	145.7	162.5	153.0	143.6	133.1	117.4	105.9	96.4	88.1
117.5°	125.8	132.1	152.0	173.0	170.8	164.5	156.2	137.3	123.6	114.3	104.8
120°	135.2	141.5	158.3	180.3	186.6	181.3	176.1	159.3	142.6	132.1	123.6
122.5°	143.6	148.9	164.5	186.6	198.1	197.1	191.8	180.3	163.5	150.9	140.4
125°	152.0	157.2	170.8	190.8	206.5	209.7	207.5	198.1	185.5	170.8	158.3
127.5°	160.4	164.5	177.1	194.9	212.8	219.0	220.1	213.8	204.4	191.8	178.1
130°	167.7	171.9	182.4	198.1	217.0	224.3	228.5	227.5	220.1	211.7	198.1
132.5°	174.0	177.1	187.6	201.2	219.0	227.5	233.8	239.0	233.8	227.5	218.0
135°	180.3	183.4	191.8	204.4	220.1	228.5	236.9	245.3	246.3	241.1	233.8
137.5°	185.5	187.6	196.0	206.5	220.1	228.5	236.9	248.4	254.7	252.6	246.3
140°	190.8	192.9	199.1	209.7	221.2	228.5	235.8	249.4	257.9	261.0	257.9
142.5°	194.9	197.1	202.2	211.7	221.2	227.5	234.8	247.4	258.9	265.2	267.3
145°	199.1	200.2	205.4	212.8	221.2	226.4	232.6	245.3	256.8	266.2	272.5
147.5°	202.2	203.4	206.5	213.8	221.2	225.3	230.6	241.1	252.6	263.1	272.5
150°	205.4	205.4	208.6	213.8	221.2	224.3	228.5	237.9	247.4	257.9	266.2
152.5°	207.5	207.5	210.7	214.9	220.1	223.3	227.5	234.8	243.1	252.6	261.0
155°	209.7	209.7	211.7	214.9	220.1	222.2	225.3	231.6	239.0	246.3	253.7
157.5°	211.7	211.7	212.8	215.9	219.0	221.2	224.3	229.5	234.8	241.1	247.4
160°	212.8	212.8	213.8	215.9	218.0	220.1	222.2	226.4	231.6	235.8	241.1
162.5°	213.8	213.8	214.9	215.9	218.0	219.0	220.1	224.3	227.5	231.6	235.8
165°	214.9	214.9	214.9	215.9	217.0	218.0	219.0	221.2	224.3	227.5	230.6
167.5°	215.9	215.9	215.9	215.9	217.0	217.0	218.0	219.0	221.2	223.3	225.3
170°	217.0	215.9	215.9	217.0	215.9	215.9	217.0	218.0	218.0	220.1	221.2
172.5°	217.0	217.0	215.9	215.9	215.9	215.9	215.9	215.9	215.9	217.0	218.0
175°	217.0	217.0	215.9	215.9	215.9	214.9	214.9	214.9	214.9	214.9	214.9
177.5°	217.0	217.0	215.9	215.9	214.9	214.9	214.9	214.9	214.9	214.9	214.9
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9	1238.9
2.5°	1247.2	1242.0	1239.9	1238.9	1237.9	1236.8	1234.7	1232.6	1230.5	1230.5
5°	1242.0	1236.8	1234.7	1233.6	1232.6	1231.6	1230.5	1230.5	1230.5	1230.5
7.5°	1233.6	1228.4	1226.3	1225.3	1225.3	1224.3	1224.3	1224.3	1223.1	1224.3
10°	1221.1	1215.8	1214.8	1213.8	1212.7	1210.6	1210.6	1210.6	1209.5	1210.6
12.5°	1205.3	1200.1	1199.0	1198.0	1197.0	1195.9	1195.9	1194.9	1194.9	1195.9
15°	1189.6	1182.3	1180.2	1180.2	1179.1	1178.1	1179.1	1178.1	1178.1	1178.1
17.5°	1166.6	1163.4	1160.3	1158.2	1157.1	1156.1	1156.1	1155.0	1155.0	1155.0
20°	1136.2	1136.2	1136.2	1130.9	1129.9	1128.9	1128.9	1128.9	1128.9	1128.9
22.5°	1106.8	1101.6	1105.8	1102.6	1100.5	1098.5	1099.5	1099.5	1099.5	1099.5
25°	1074.4	1070.1	1071.2	1072.2	1070.1	1067.0	1067.0	1067.0	1067.0	1065.9
27.5°	1039.7	1036.6	1035.5	1036.6	1038.7	1036.6	1033.5	1030.3	1031.4	1031.4
30°	1002.0	1001.0	999.9	997.8	999.9	1001.0	995.7	994.7	994.7	994.7
32.5°	964.3	963.2	960.1	957.9	959.1	961.1	959.1	956.9	956.9	956.9
35°	926.5	922.4	919.2	918.2	918.2	920.2	919.2	916.1	916.1	916.1
37.5°	882.5	883.6	878.3	877.3	877.3	877.3	879.3	874.2	875.2	874.2
40°	839.6	840.6	837.5	834.3	835.3	833.3	836.4	831.2	831.2	831.2
42.5°	796.6	794.4	795.6	789.3	790.3	790.3	791.3	788.2	787.1	786.1
45°	752.6	750.4	749.4	746.2	746.2	745.2	745.2	741.1	741.1	741.1
47.5°	706.5	705.4	703.3	701.2	701.2	700.2	698.0	697.0	695.9	695.9
50°	662.5	659.3	656.2	657.2	656.2	655.0	653.0	651.9	650.9	649.9
52.5°	615.3	615.3	611.1	611.1	611.1	610.0	608.0	605.8	605.8	604.8
55°	569.1	568.1	564.9	563.9	564.9	563.9	561.8	559.7	559.7	558.6
57.5°	523.1	520.9	519.9	519.9	518.8	518.8	515.7	513.6	514.6	513.6
60°	475.9	475.9	474.8	473.7	473.7	472.7	469.6	469.6	469.6	468.6
62.5°	430.8	430.8	428.7	427.7	428.7	427.7	426.6	425.5	424.5	423.4
65°	383.6	384.7	382.5	383.6	383.6	381.5	381.5	380.5	380.5	379.4
67.5°	339.6	339.6	338.5	338.5	339.6	338.5	338.5	337.5	337.5	336.5
70°	294.5	296.6	295.6	295.6	295.6	294.5	294.5	294.5	293.5	294.5
72.5°	249.4	249.4	249.4	249.4	249.4	250.5	250.5	250.5	250.5	249.4
75°	207.5	208.6	207.5	208.6	209.7	209.7	209.7	209.7	210.7	209.7
77.5°	166.7	167.7	167.7	169.8	169.8	169.8	170.8	170.8	170.8	170.8
80°	127.9	128.9	130.0	132.1	132.1	134.1	135.2	135.2	135.2	135.2
82.5°	92.2	95.4	96.4	99.5	100.7	100.7	102.7	103.8	103.8	103.8
85°	64.0	67.1	69.1	71.3	73.4	73.4	75.4	75.4	76.5	76.5
87.5°	39.9	43.0	45.0	48.2	49.2	50.3	51.3	52.4	53.5	53.5
90°	22.0	24.1	26.2	28.3	28.3	29.4	30.4	31.4	32.5	32.5
92.5°	15.8	16.8	18.9	19.9	19.9	20.9	22.0	22.0	23.1	23.1
95°	17.8	18.9	18.9	19.9	19.9	19.9	20.9	20.9	20.9	20.9
97.5°	27.3	27.3	27.3	26.2	26.2	26.2	26.2	26.2	26.2	26.2
100°	35.6	36.7	36.7	36.7	37.7	37.7	37.7	37.7	36.7	36.7
102.5°	39.9	40.9	41.9	43.0	43.0	43.0	44.0	44.0	44.0	44.0
105°	45.0	45.0	46.1	47.2	47.2	47.2	48.2	48.2	48.2	48.2
107.5°	51.3	51.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
110°	58.7	58.7	58.7	57.7	58.7	57.7	57.7	57.7	57.7	57.7



TEST NUMBER: P395082

CATALOG NUMBER: I3-WL-50L935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	67.1	66.0	66.0	65.0	65.0	65.0	64.0	64.0	64.0	64.0
115°	80.7	75.4	73.4	71.3	71.3	71.3	70.3	70.3	70.3	70.3
117.5°	97.5	90.1	85.9	81.8	80.7	79.6	77.6	77.6	76.5	76.5
120°	115.3	108.0	101.7	96.4	94.4	93.2	90.1	88.1	85.9	85.9
122.5°	132.1	124.8	118.5	113.2	111.1	109.0	105.9	103.8	101.7	101.7
125°	148.9	141.5	135.2	130.0	126.8	124.8	121.6	119.5	117.4	117.4
127.5°	166.7	157.2	150.9	145.7	142.6	141.5	137.3	135.2	133.1	133.1
130°	186.6	175.0	166.7	160.4	158.3	156.2	153.0	150.9	148.9	148.9
132.5°	206.5	194.9	185.5	177.1	174.0	171.9	167.7	165.6	163.5	163.5
135°	225.3	214.9	205.4	197.1	193.9	190.8	186.6	182.4	180.3	180.3
137.5°	240.0	232.6	224.3	217.0	213.8	210.7	206.5	202.2	199.1	200.2
140°	252.6	246.3	241.1	235.8	232.6	230.6	226.4	223.3	220.1	220.1
142.5°	264.2	258.9	253.7	249.4	248.4	247.4	244.2	241.1	239.0	239.0
145°	274.6	271.5	267.3	262.0	261.0	259.9	256.8	254.7	253.7	253.7
147.5°	277.8	278.8	277.8	274.6	273.5	272.5	270.4	268.3	267.3	267.3
150°	275.7	279.8	282.0	282.0	282.0	282.0	282.0	279.8	278.8	278.8
152.5°	269.4	275.7	279.8	283.0	284.0	285.1	285.1	286.1	285.1	285.1
155°	262.0	268.3	274.6	277.8	279.8	280.9	283.0	284.0	285.1	284.0
157.5°	253.7	258.9	263.1	269.4	271.5	273.5	275.7	277.8	278.8	277.8
160°	246.3	250.5	253.7	257.9	258.9	261.0	263.1	264.2	266.2	265.2
162.5°	239.0	242.1	245.3	247.4	249.4	250.5	252.6	253.7	254.7	253.7
165°	233.8	235.8	236.9	239.0	240.0	241.1	242.1	243.1	243.1	243.1
167.5°	227.5	229.5	230.6	231.6	232.6	233.8	233.8	234.8	234.8	234.8
170°	222.2	223.3	224.3	225.3	225.3	226.4	226.4	226.4	227.5	226.4
172.5°	218.0	218.0	218.0	219.0	219.0	219.0	219.0	219.0	219.0	218.0
175°	215.9	215.9	214.9	214.9	214.9	214.9	214.9	213.8	212.8	211.7
177.5°	214.9	213.8	213.8	212.8	212.8	212.8	211.7	210.7	209.7	208.6
180°	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8	213.8

(END OF REPORT)