

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: P395859

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395859
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-40L82765-1D-UNV-W2A-W-4 (5000K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3918.6 lumens
Efficiency: N/A
Efficacy: 104.5 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

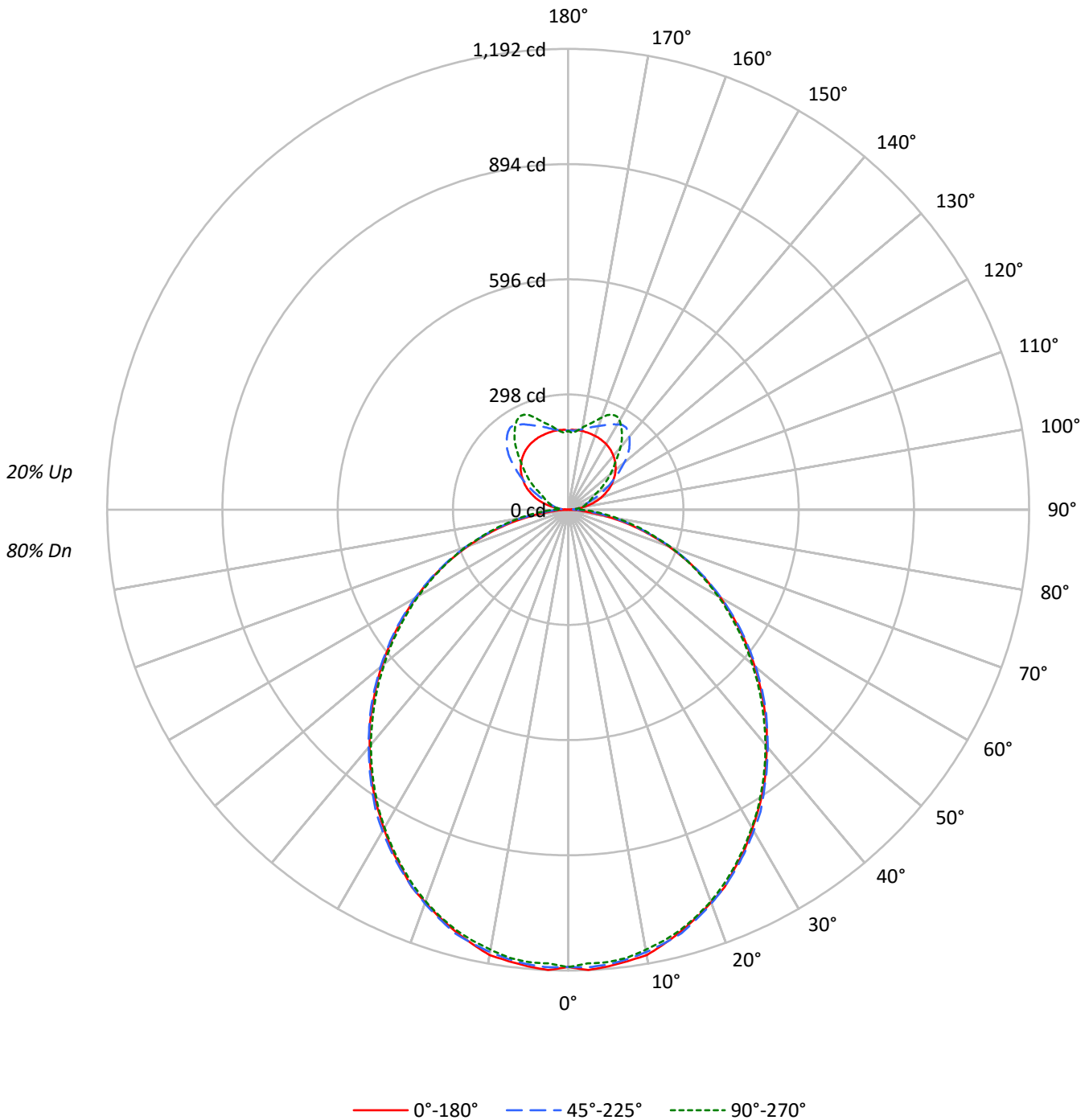
Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

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°	6501	6501	6501
5°	6518	6367	6298
10°	6480	6194	6093
15°	6351	6023	5876
20°	6225	5780	5622
25°	6076	5535	5342
30°	5902	5281	5055
35°	5738	4999	4758
40°	5533	4709	4450
45°	5335	4425	4125
50°	5122	4113	3797
55°	4900	3795	3463
60°	4651	3442	3117
65°	4366	3059	2748
70°	3960	2612	2359
75°	3411	2069	1894
80°	2603	1491	1414
85°	1358	890	958



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	2.9
10°-20°	317.0	8.1
20°-30°	469.3	12.0
30°-40°	548.5	14.0
40°-50°	551.0	14.1
50°-60°	484.3	12.4
60°-70°	362.9	9.3
70°-80°	206.4	5.3
80°-90°	65.1	1.7
90°-100°	23.5	0.6
100°-110°	57.2	1.5
110°-120°	95.1	2.4
120°-130°	133.4	3.4
130°-140°	153.7	3.9
140°-150°	146.8	3.7
150°-160°	110.4	2.8
160°-170°	62.5	1.6
170°-180°	19.8	0.5
0°-30°	898.1	22.9
0°-40°	1446.6	36.9
0°-60°	2481.9	63.3
0°-90°	3116.3	79.5
90°-120°	175.8	4.5
90°-150°	609.7	15.6
90°-180°	802.0	20.5
0°-180°	3918.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1186	1174	1181	1177	1175	113
15°	1129	1119	1134	1126	1125	318
25°	1022	1019	1026	1022	1018	471
35°	881	874	884	877	875	550
45°	716	714	720	712	708	552
55°	542	544	546	539	533	485
65°	366	367	369	366	362	362
75°	186	189	194	200	200	197
85°	32	42	57	70	73	42
90°	1	6	18	27	31	3
95°	17	17	17	19	20	19
105°	67	57	43	45	46	70
115°	110	137	84	68	67	109
125°	145	200	151	121	112	130
135°	172	218	223	185	172	133
145°	190	216	260	249	242	119
155°	200	212	242	267	271	92
165°	205	208	220	229	232	58
175°	207	205	205	205	202	20
180°	204	204	204	204	204	



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1191.8	1189.8	1184.8	1179.8	1178.8	1177.8	1177.8	1176.8	1176.8	1178.8	1184.8
5°	1185.8	1184.8	1179.8	1174.8	1173.8	1173.8	1172.8	1172.8	1172.8	1174.8	1180.8
7.5°	1177.8	1175.8	1170.8	1165.8	1164.8	1164.8	1164.8	1163.8	1164.8	1165.8	1172.8
10°	1169.8	1168.8	1163.8	1157.8	1155.8	1155.8	1154.8	1152.8	1152.8	1154.8	1161.8
12.5°	1149.8	1148.8	1143.8	1139.8	1139.8	1140.8	1140.8	1141.8	1141.8	1143.8	1148.8
15°	1128.8	1127.8	1122.8	1118.8	1118.8	1118.8	1117.8	1117.8	1118.8	1124.8	1133.8
17.5°	1105.8	1104.8	1100.8	1096.8	1096.8	1096.8	1095.8	1095.8	1096.8	1099.8	1108.8
20°	1080.8	1079.8	1075.7	1071.7	1071.7	1071.7	1070.7	1071.7	1071.7	1075.7	1083.8
22.5°	1056.7	1054.7	1049.7	1045.7	1043.7	1043.7	1043.7	1042.7	1044.7	1047.7	1055.7
25°	1021.7	1020.7	1018.7	1015.7	1017.7	1018.7	1016.7	1014.7	1014.7	1018.7	1025.7
27.5°	989.7	987.7	984.7	981.7	979.7	980.7	981.7	983.7	986.7	987.7	993.7
30°	952.7	951.7	948.7	944.7	945.7	946.7	946.7	946.7	948.7	957.7	959.7
32.5°	916.6	915.6	912.6	908.6	909.6	910.6	909.6	910.6	912.6	916.6	925.6
35°	880.6	878.6	875.6	874.6	873.6	873.6	873.6	874.6	875.6	878.6	883.6
37.5°	839.6	837.6	835.6	832.6	834.6	836.6	837.6	836.6	837.6	841.6	843.6
40°	798.6	797.6	795.6	793.6	794.6	795.6	794.6	797.6	799.6	801.6	802.6
42.5°	759.5	757.5	755.5	754.5	754.5	755.5	755.5	757.5	757.5	762.5	761.5
45°	715.5	714.5	713.5	713.5	714.5	714.5	714.5	715.5	716.5	719.5	720.5
47.5°	672.5	671.5	671.5	671.5	671.5	672.5	673.5	676.5	674.5	675.5	676.5
50°	629.4	628.4	628.4	628.4	630.4	630.4	632.4	633.4	634.4	632.4	633.4
52.5°	585.4	584.4	586.4	586.4	588.4	588.4	591.4	588.4	590.4	589.4	589.4
55°	542.4	541.4	543.4	542.4	544.4	544.4	546.4	547.4	546.4	546.4	546.4
57.5°	498.3	497.3	498.3	499.3	500.3	500.3	503.4	503.4	500.3	502.3	501.3
60°	454.3	453.3	454.3	455.3	456.3	456.3	457.3	455.3	457.3	458.3	457.3
62.5°	410.3	409.3	411.3	410.3	411.3	412.3	412.3	415.3	414.3	414.3	413.3
65°	366.3	365.3	365.3	365.3	366.3	367.3	368.3	369.3	369.3	370.3	369.3
67.5°	321.2	320.2	321.2	320.2	321.2	322.2	324.2	325.2	325.2	326.2	325.2
70°	275.2	276.2	275.2	276.2	277.2	278.2	279.2	281.2	281.2	281.2	281.2
72.5°	230.2	229.2	229.2	228.2	230.2	231.2	232.2	235.2	235.2	236.2	236.2
75°	186.1	184.1	185.1	184.1	188.1	189.1	189.1	192.1	193.1	195.1	194.1
77.5°	143.1	143.1	141.1	144.1	145.1	147.1	149.1	151.1	152.1	155.1	155.1
80°	102.1	102.1	101.1	103.1	107.1	108.1	111.1	112.1	115.1	117.1	118.1
82.5°	65.0	65.0	65.0	68.0	71.0	72.1	75.1	78.1	80.1	83.1	84.1
85°	32.0	34.0	34.0	38.0	40.0	42.0	43.0	47.0	50.0	54.0	57.0
87.5°	10.0	11.0	12.0	14.0	18.0	19.0	21.0	25.0	28.0	32.0	35.0
90°	1.0	1.0	2.0	3.0	5.0	6.0	8.0	10.0	13.0	16.0	18.0
92.5°	7.0	7.0	8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	13.0
95°	17.0	27.0	16.0	15.0	17.0	17.0	18.0	17.0	17.0	17.0	17.0
97.5°	28.0	50.0	33.0	23.0	22.0	23.0	23.0	25.0	26.0	27.0	27.0
100°	41.0	63.0	58.0	38.0	31.0	30.0	30.0	30.0	31.0	32.0	33.0
102.5°	54.0	72.1	83.1	59.0	44.0	40.0	38.0	37.0	36.0	37.0	37.0
105°	67.0	81.1	102.1	80.1	63.0	57.0	51.0	44.0	43.0	43.0	43.0
107.5°	79.1	90.1	116.1	104.1	82.1	76.1	69.0	58.0	51.0	50.0	49.0
110°	90.1	99.1	126.1	124.1	103.1	94.1	88.1	76.1	66.0	59.0	56.0



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	100.1	108.1	133.1	141.1	126.1	115.1	106.1	94.1	83.1	74.1	67.0
115°	110.1	117.1	139.1	155.1	146.1	137.1	127.1	112.1	101.1	92.1	84.1
117.5°	120.1	126.1	145.1	165.1	163.1	157.1	149.1	131.1	118.1	109.1	100.1
120°	129.1	135.1	151.1	172.1	178.1	173.1	168.1	152.1	136.1	126.1	118.1
122.5°	137.1	142.1	157.1	178.1	189.1	188.1	183.1	172.1	156.1	144.1	134.1
125°	145.1	150.1	163.1	182.1	197.1	200.1	198.1	189.1	177.1	163.1	151.1
127.5°	153.1	157.1	169.1	186.1	203.1	209.1	210.1	204.1	195.1	183.1	170.1
130°	160.1	164.1	174.1	189.1	207.1	214.1	218.2	217.2	210.1	202.1	189.1
132.5°	166.1	169.1	179.1	192.1	209.1	217.2	223.2	228.2	223.2	217.2	208.1
135°	172.1	175.1	183.1	195.1	210.1	218.2	226.2	234.2	235.2	230.2	223.2
137.5°	177.1	179.1	187.1	197.1	210.1	218.2	226.2	237.2	243.2	241.2	235.2
140°	182.1	184.1	190.1	200.1	211.1	218.2	225.2	238.2	246.2	249.2	246.2
142.5°	186.1	188.1	193.1	202.1	211.1	217.2	224.2	236.2	247.2	253.2	255.2
145°	190.1	191.1	196.1	203.1	211.1	216.2	222.2	234.2	245.2	254.2	260.2
147.5°	193.1	194.1	197.1	204.1	211.1	215.1	220.2	230.2	241.2	251.2	260.2
150°	196.1	196.1	199.1	204.1	211.1	214.1	218.2	227.2	236.2	246.2	254.2
152.5°	198.1	198.1	201.1	205.1	210.1	213.1	217.2	224.2	232.2	241.2	249.2
155°	200.1	200.1	202.1	205.1	210.1	212.1	215.1	221.2	228.2	235.2	242.2
157.5°	202.1	202.1	203.1	206.1	209.1	211.1	214.1	219.2	224.2	230.2	236.2
160°	203.1	203.1	204.1	206.1	208.1	210.1	212.1	216.2	221.2	225.2	230.2
162.5°	204.1	204.1	205.1	206.1	208.1	209.1	210.1	214.1	217.2	221.2	225.2
165°	205.1	205.1	205.1	206.1	207.1	208.1	209.1	211.1	214.1	217.2	220.2
167.5°	206.1	206.1	206.1	206.1	207.1	207.1	208.1	209.1	211.1	213.1	215.1
170°	207.1	206.1	206.1	207.1	206.1	206.1	207.1	208.1	208.1	210.1	211.1
172.5°	207.1	207.1	206.1	206.1	206.1	206.1	206.1	206.1	206.1	207.1	208.1
175°	207.1	207.1	206.1	206.1	206.1	205.1	205.1	205.1	205.1	205.1	205.1
177.5°	207.1	207.1	206.1	206.1	205.1	205.1	205.1	205.1	205.1	205.1	205.1
180°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8	1182.8
2.5°	1190.8	1185.8	1183.8	1182.8	1181.8	1180.8	1178.8	1176.8	1174.8	1174.8
5°	1185.8	1180.8	1178.8	1177.8	1176.8	1175.8	1174.8	1174.8	1174.8	1174.8
7.5°	1177.8	1172.8	1170.8	1169.8	1169.8	1168.8	1168.8	1168.8	1167.8	1168.8
10°	1165.8	1160.8	1159.8	1158.8	1157.8	1155.8	1155.8	1155.8	1154.8	1155.8
12.5°	1150.8	1145.8	1144.8	1143.8	1142.8	1141.8	1141.8	1140.8	1140.8	1141.8
15°	1135.8	1128.8	1126.8	1126.8	1125.8	1124.8	1125.8	1124.8	1124.8	1124.8
17.5°	1113.8	1110.8	1107.8	1105.8	1104.8	1103.8	1103.8	1102.8	1102.8	1102.8
20°	1084.8	1084.8	1084.8	1079.8	1078.8	1077.8	1077.8	1077.8	1077.8	1077.8
22.5°	1056.7	1051.7	1055.7	1052.7	1050.7	1048.7	1049.7	1049.7	1049.7	1049.7
25°	1025.7	1021.7	1022.7	1023.7	1021.7	1018.7	1018.7	1018.7	1018.7	1017.7
27.5°	992.7	989.7	988.7	989.7	991.7	989.7	986.7	983.7	984.7	984.7
30°	956.7	955.7	954.7	952.7	954.7	955.7	950.7	949.7	949.7	949.7
32.5°	920.6	919.6	916.6	914.6	915.6	917.6	915.6	913.6	913.6	913.6
35°	884.6	880.6	877.6	876.6	876.6	878.6	877.6	874.6	874.6	874.6
37.5°	842.6	843.6	838.6	837.6	837.6	837.6	839.6	834.6	835.6	834.6
40°	801.6	802.6	799.6	796.6	797.6	795.6	798.6	793.6	793.6	793.6
42.5°	760.5	758.5	759.5	753.5	754.5	754.5	755.5	752.5	751.5	750.5
45°	718.5	716.5	715.5	712.5	712.5	711.5	711.5	707.5	707.5	707.5
47.5°	674.5	673.5	671.5	669.5	669.5	668.5	666.5	665.5	664.5	664.5
50°	632.4	629.4	626.4	627.4	626.4	625.4	623.4	622.4	621.4	620.4
52.5°	587.4	587.4	583.4	583.4	583.4	582.4	580.4	578.4	578.4	577.4
55°	543.4	542.4	539.4	538.4	539.4	538.4	536.4	534.4	534.4	533.4
57.5°	499.3	497.3	496.3	496.3	495.3	495.3	492.3	490.3	491.3	490.3
60°	454.3	454.3	453.3	452.3	452.3	451.3	448.3	448.3	448.3	447.3
62.5°	411.3	411.3	409.3	408.3	409.3	408.3	407.3	406.3	405.3	404.3
65°	366.3	367.3	365.3	366.3	366.3	364.3	364.3	363.3	363.3	362.3
67.5°	324.2	324.2	323.2	323.2	324.2	323.2	323.2	322.2	322.2	321.2
70°	281.2	283.2	282.2	282.2	282.2	281.2	281.2	281.2	280.2	281.2
72.5°	238.2	238.2	238.2	238.2	238.2	239.2	239.2	239.2	239.2	238.2
75°	198.1	199.1	198.1	199.1	200.1	200.1	200.1	200.1	201.1	200.1
77.5°	159.1	160.1	160.1	162.1	162.1	162.1	163.1	163.1	163.1	163.1
80°	122.1	123.1	124.1	126.1	126.1	128.1	129.1	129.1	129.1	129.1
82.5°	88.1	91.1	92.1	95.1	96.1	96.1	98.1	99.1	99.1	99.1
85°	61.0	64.0	66.0	68.0	70.0	70.0	72.1	72.1	73.1	73.1
87.5°	38.0	41.0	43.0	46.0	47.0	48.0	49.0	50.0	51.0	51.0
90°	21.0	23.0	25.0	27.0	27.0	28.0	29.0	30.0	31.0	31.0
92.5°	15.0	16.0	18.0	19.0	19.0	20.0	21.0	21.0	22.0	22.0
95°	17.0	18.0	18.0	19.0	19.0	19.0	20.0	20.0	20.0	20.0
97.5°	26.0	26.0	26.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
100°	34.0	35.0	35.0	35.0	36.0	36.0	36.0	36.0	35.0	35.0
102.5°	38.0	39.0	40.0	41.0	41.0	41.0	42.0	42.0	42.0	42.0
105°	43.0	43.0	44.0	45.0	45.0	45.0	46.0	46.0	46.0	46.0
107.5°	49.0	49.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
110°	56.0	56.0	56.0	55.0	56.0	55.0	55.0	55.0	55.0	55.0



TEST NUMBER: P395859

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	64.0	63.0	63.0	62.0	62.0	62.0	61.0	61.0	61.0	61.0
115°	77.1	72.1	70.0	68.0	68.0	68.0	67.0	67.0	67.0	67.0
117.5°	93.1	86.1	82.1	78.1	77.1	76.1	74.1	74.1	73.1	73.1
120°	110.1	103.1	97.1	92.1	90.1	89.1	86.1	84.1	82.1	82.1
122.5°	126.1	119.1	113.1	108.1	106.1	104.1	101.1	99.1	97.1	97.1
125°	142.1	135.1	129.1	124.1	121.1	119.1	116.1	114.1	112.1	112.1
127.5°	159.1	150.1	144.1	139.1	136.1	135.1	131.1	129.1	127.1	127.1
130°	178.1	167.1	159.1	153.1	151.1	149.1	146.1	144.1	142.1	142.1
132.5°	197.1	186.1	177.1	169.1	166.1	164.1	160.1	158.1	156.1	156.1
135°	215.1	205.1	196.1	188.1	185.1	182.1	178.1	174.1	172.1	172.1
137.5°	229.2	222.2	214.1	207.1	204.1	201.1	197.1	193.1	190.1	191.1
140°	241.2	235.2	230.2	225.2	222.2	220.2	216.2	213.1	210.1	210.1
142.5°	252.2	247.2	242.2	238.2	237.2	236.2	233.2	230.2	228.2	228.2
145°	262.2	259.2	255.2	250.2	249.2	248.2	245.2	243.2	242.2	242.2
147.5°	265.2	266.2	265.2	262.2	261.2	260.2	258.2	256.2	255.2	255.2
150°	263.2	267.2	269.2	269.2	269.2	269.2	269.2	267.2	266.2	266.2
152.5°	257.2	263.2	267.2	270.2	271.2	272.2	272.2	273.2	272.2	272.2
155°	250.2	256.2	262.2	265.2	267.2	268.2	270.2	271.2	272.2	271.2
157.5°	242.2	247.2	251.2	257.2	259.2	261.2	263.2	265.2	266.2	265.2
160°	235.2	239.2	242.2	246.2	247.2	249.2	251.2	252.2	254.2	253.2
162.5°	228.2	231.2	234.2	236.2	238.2	239.2	241.2	242.2	243.2	242.2
165°	223.2	225.2	226.2	228.2	229.2	230.2	231.2	232.2	232.2	232.2
167.5°	217.2	219.2	220.2	221.2	222.2	223.2	223.2	224.2	224.2	224.2
170°	212.1	213.1	214.1	215.1	215.1	216.2	216.2	216.2	217.2	216.2
172.5°	208.1	208.1	208.1	209.1	209.1	209.1	209.1	209.1	209.1	208.1
175°	206.1	206.1	205.1	205.1	205.1	205.1	205.1	204.1	203.1	202.1
177.5°	205.1	204.1	204.1	203.1	203.1	203.1	202.1	201.1	200.1	199.1
180°	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1	204.1

(END OF REPORT)