

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: P395860

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395860
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 (5700K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3968.1 lumens
Efficiency: N/A
Efficacy: 105.3 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

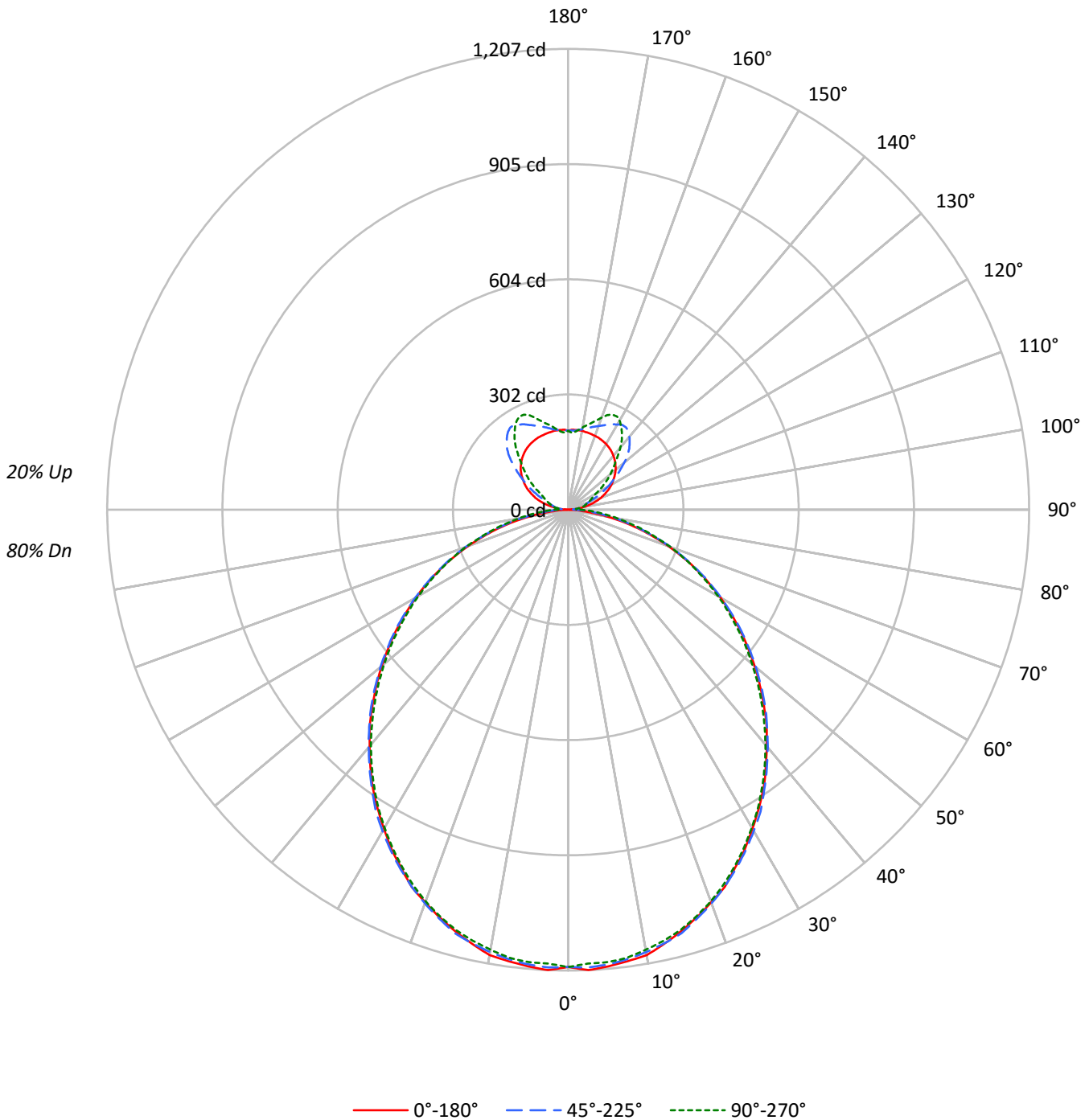
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6584	6584	6584
5°	6601	6447	6378
10°	6562	6272	6170
15°	6431	6099	5950
20°	6304	5853	5693
25°	6152	5605	5409
30°	5976	5347	5118
35°	5810	5062	4818
40°	5602	4768	4506
45°	5402	4480	4177
50°	5187	4165	3845
55°	4961	3843	3506
60°	4711	3486	3157
65°	4420	3097	2782
70°	4010	2644	2388
75°	3455	2096	1918
80°	2637	1510	1431
85°	1375	903	970



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CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.9
10°-20°	321.0	8.1
20°-30°	475.3	12.0
30°-40°	555.5	14.0
40°-50°	558.0	14.1
50°-60°	490.4	12.4
60°-70°	367.4	9.3
70°-80°	209.0	5.3
80°-90°	66.0	1.7
90°-100°	23.8	0.6
100°-110°	57.9	1.5
110°-120°	96.3	2.4
120°-130°	135.1	3.4
130°-140°	155.7	3.9
140°-150°	148.7	3.7
150°-160°	111.8	2.8
160°-170°	63.3	1.6
170°-180°	20.0	0.5
0°-30°	909.4	22.9
0°-40°	1464.9	36.9
0°-60°	2513.2	63.3
0°-90°	3155.6	79.5
90°-120°	178.0	4.5
90°-150°	617.4	15.6
90°-180°	813.0	20.5
0°-180°	3968.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1201	1189	1196	1192	1190	114
15°	1143	1133	1148	1140	1139	322
25°	1035	1032	1039	1035	1031	477
35°	892	885	895	888	886	557
45°	724	724	730	722	716	559
55°	549	551	553	546	540	491
65°	371	372	374	371	367	366
75°	188	192	197	203	203	200
85°	32	43	58	71	74	42
90°	1	6	18	27	31	3
95°	17	17	17	19	20	19
105°	68	58	44	46	47	71
115°	112	139	85	69	68	110
125°	147	203	153	123	114	131
135°	174	221	226	188	174	134
145°	192	219	264	252	245	120
155°	203	215	245	271	275	94
165°	208	211	223	232	235	59
175°	210	208	208	208	205	20
180°	207	207	207	207	207	



TEST NUMBER: P395860

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1206.9	1204.8	1199.8	1194.7	1193.7	1192.7	1192.7	1191.7	1191.7	1193.7	1199.8
5°	1200.8	1199.8	1194.7	1189.6	1188.6	1188.6	1187.6	1187.6	1187.6	1189.6	1195.7
7.5°	1192.7	1190.7	1185.6	1180.5	1179.5	1179.5	1179.5	1178.5	1179.5	1180.5	1187.6
10°	1184.6	1183.6	1178.5	1172.4	1170.4	1170.4	1169.4	1167.4	1167.4	1169.4	1176.5
12.5°	1164.3	1163.3	1158.2	1154.2	1154.2	1155.2	1155.2	1156.2	1156.2	1158.2	1163.3
15°	1143.0	1142.0	1137.0	1132.9	1132.9	1132.9	1131.9	1131.9	1132.9	1139.0	1148.1
17.5°	1119.7	1118.7	1114.7	1110.6	1110.6	1110.6	1109.6	1109.6	1110.6	1113.6	1122.8
20°	1094.4	1093.4	1089.3	1085.3	1085.3	1085.3	1084.3	1085.3	1085.3	1089.3	1097.4
22.5°	1070.1	1068.0	1063.0	1058.9	1056.9	1056.9	1056.9	1055.9	1057.9	1061.0	1069.1
25°	1034.6	1033.6	1031.6	1028.5	1030.6	1031.6	1029.5	1027.5	1027.5	1031.6	1038.7
27.5°	1002.2	1000.2	997.1	994.1	992.0	993.1	994.1	996.1	999.1	1000.2	1006.2
30°	964.7	963.7	960.6	956.6	957.6	958.6	958.6	958.6	960.6	969.8	971.8
32.5°	928.2	927.2	924.2	920.1	921.1	922.1	921.1	922.1	924.2	928.2	937.3
35°	891.7	889.7	886.7	885.6	884.6	884.6	884.6	885.6	886.7	889.7	894.8
37.5°	850.2	848.2	846.1	843.1	845.1	847.1	848.2	847.1	848.2	852.2	854.2
40°	808.6	807.6	805.6	803.6	804.6	805.6	804.6	807.6	809.6	811.7	812.7
42.5°	769.1	767.1	765.1	764.0	764.0	765.1	765.1	767.1	767.1	772.2	771.1
45°	724.5	723.5	722.5	722.5	723.5	723.5	723.5	724.5	725.5	728.6	729.6
47.5°	681.0	679.9	679.9	679.9	679.9	681.0	682.0	685.0	683.0	684.0	685.0
50°	637.4	636.4	636.4	636.4	638.4	638.4	640.4	641.4	642.4	640.4	641.4
52.5°	592.8	591.8	593.8	593.8	595.8	595.8	598.9	595.8	597.9	596.8	596.8
55°	549.2	548.2	550.2	549.2	551.2	551.2	553.3	554.3	553.3	553.3	553.3
57.5°	504.6	503.6	504.6	505.7	506.7	506.7	509.7	509.7	506.7	508.7	507.7
60°	460.1	459.0	460.1	461.1	462.1	462.1	463.1	461.1	463.1	464.1	463.1
62.5°	415.5	414.5	416.5	415.5	416.5	417.5	417.5	420.5	419.5	419.5	418.5
65°	370.9	369.9	369.9	369.9	370.9	371.9	372.9	373.9	373.9	374.9	373.9
67.5°	325.3	324.3	325.3	324.3	325.3	326.3	328.3	329.3	329.3	330.3	329.3
70°	278.7	279.7	278.7	279.7	280.7	281.7	282.7	284.7	284.7	284.7	284.7
72.5°	233.1	232.1	232.1	231.0	233.1	234.1	235.1	238.1	238.1	239.1	239.1
75°	188.5	186.5	187.5	186.5	190.5	191.5	191.5	194.6	195.6	197.6	196.6
77.5°	144.9	144.9	142.9	145.9	146.9	149.0	151.0	153.0	154.0	157.1	157.1
80°	103.4	103.4	102.3	104.4	108.4	109.4	112.5	113.5	116.5	118.6	119.6
82.5°	65.9	65.9	65.9	68.9	71.9	73.0	76.0	79.0	81.1	84.1	85.1
85°	32.4	34.5	34.5	38.5	40.5	42.6	43.6	47.6	50.7	54.7	57.8
87.5°	10.1	11.1	12.2	14.2	18.2	19.3	21.3	25.3	28.4	32.4	35.5
90°	1.0	1.0	2.0	3.0	5.1	6.1	8.1	10.1	13.2	16.2	18.2
92.5°	7.1	7.1	8.1	8.1	8.1	8.1	8.1	9.1	10.1	12.2	13.2
95°	17.2	27.4	16.2	15.2	17.2	17.2	18.2	17.2	17.2	17.2	17.2
97.5°	28.4	50.7	33.4	23.3	22.3	23.3	23.3	25.3	26.3	27.4	27.4
100°	41.5	63.8	58.8	38.5	31.4	30.4	30.4	30.4	31.4	32.4	33.4
102.5°	54.7	73.0	84.1	59.8	44.6	40.5	38.5	37.5	36.5	37.5	37.5
105°	67.9	82.1	103.4	81.1	63.8	57.8	51.7	44.6	43.6	43.6	43.6
107.5°	80.1	91.2	117.5	105.4	83.1	77.0	69.9	58.8	51.7	50.7	49.7
110°	91.2	100.3	127.7	125.7	104.4	95.3	89.2	77.0	66.9	59.8	56.7



TEST NUMBER: P395860

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	101.3	109.4	134.8	142.9	127.7	116.5	107.4	95.3	84.1	75.0	67.9
115°	111.5	118.6	140.9	157.1	147.9	138.8	128.7	113.5	102.3	93.2	85.1
117.5°	121.6	127.7	146.9	167.2	165.2	159.1	151.0	132.7	119.6	110.5	101.3
120°	130.7	136.8	153.0	174.3	180.4	175.3	170.2	154.0	137.8	127.7	119.6
122.5°	138.8	143.9	159.1	180.4	191.5	190.5	185.4	174.3	158.1	145.9	135.8
125°	146.9	152.0	165.2	184.4	199.6	202.7	200.6	191.5	179.4	165.2	153.0
127.5°	155.0	159.1	171.3	188.5	205.7	211.8	212.8	206.7	197.6	185.4	172.3
130°	162.1	166.2	176.3	191.5	209.8	216.9	220.9	219.9	212.8	204.7	191.5
132.5°	168.2	171.3	181.4	194.6	211.8	219.9	226.0	231.0	226.0	219.9	210.8
135°	174.3	177.3	185.4	197.6	212.8	220.9	229.0	237.1	238.1	233.1	226.0
137.5°	179.4	181.4	189.5	199.6	212.8	220.9	229.0	240.2	246.2	244.2	238.1
140°	184.4	186.5	192.5	202.7	213.8	220.9	228.0	241.2	249.3	252.3	249.3
142.5°	188.5	190.5	195.6	204.7	213.8	219.9	227.0	239.1	250.3	256.4	258.4
145°	192.5	193.5	198.6	205.7	213.8	218.9	225.0	237.1	248.3	257.4	263.5
147.5°	195.6	196.6	199.6	206.7	213.8	217.9	222.9	233.1	244.2	254.3	263.5
150°	198.6	198.6	201.7	206.7	213.8	216.9	220.9	230.0	239.1	249.3	257.4
152.5°	200.6	200.6	203.7	207.7	212.8	215.8	219.9	227.0	235.1	244.2	252.3
155°	202.7	202.7	204.7	207.7	212.8	214.8	217.9	223.9	231.0	238.1	245.2
157.5°	204.7	204.7	205.7	208.7	211.8	213.8	216.9	221.9	227.0	233.1	239.1
160°	205.7	205.7	206.7	208.7	210.8	212.8	214.8	218.9	223.9	228.0	233.1
162.5°	206.7	206.7	207.7	208.7	210.8	211.8	212.8	216.9	219.9	223.9	228.0
165°	207.7	207.7	207.7	208.7	209.8	210.8	211.8	213.8	216.9	219.9	222.9
167.5°	208.7	208.7	208.7	208.7	209.8	209.8	210.8	211.8	213.8	215.8	217.9
170°	209.8	208.7	208.7	209.8	208.7	208.7	209.8	210.8	210.8	212.8	213.8
172.5°	209.8	209.8	208.7	208.7	208.7	208.7	208.7	208.7	208.7	209.8	210.8
175°	209.8	209.8	208.7	208.7	208.7	207.7	207.7	207.7	207.7	207.7	207.7
177.5°	209.8	209.8	208.7	208.7	207.7	207.7	207.7	207.7	207.7	207.7	207.7
180°	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1205.9	1200.8	1198.8	1197.8	1196.7	1195.7	1193.7	1191.7	1189.6	1189.6
5°	1200.8	1195.7	1193.7	1192.7	1191.7	1190.7	1189.6	1189.6	1189.6	1189.6
7.5°	1192.7	1187.6	1185.6	1184.6	1184.6	1183.6	1183.6	1183.6	1182.6	1183.6
10°	1180.5	1175.5	1174.4	1173.4	1172.4	1170.4	1170.4	1170.4	1169.4	1170.4
12.5°	1165.3	1160.3	1159.2	1158.2	1157.2	1156.2	1156.2	1155.2	1155.2	1156.2
15°	1150.1	1143.0	1141.0	1141.0	1140.0	1139.0	1140.0	1139.0	1139.0	1139.0
17.5°	1127.8	1124.8	1121.8	1119.7	1118.7	1117.7	1117.7	1116.7	1116.7	1116.7
20°	1098.4	1098.4	1098.4	1093.4	1092.4	1091.4	1091.4	1091.4	1091.4	1091.4
22.5°	1070.1	1065.0	1069.1	1066.0	1064.0	1062.0	1063.0	1063.0	1063.0	1063.0
25°	1038.7	1034.6	1035.6	1036.6	1034.6	1031.6	1031.6	1031.6	1031.6	1030.6
27.5°	1005.2	1002.2	1001.2	1002.2	1004.2	1002.2	999.1	996.1	997.1	997.1
30°	968.7	967.7	966.7	964.7	966.7	967.7	962.7	961.6	961.6	961.6
32.5°	932.3	931.2	928.2	926.2	927.2	929.2	927.2	925.2	925.2	925.2
35°	895.8	891.7	888.7	887.7	887.7	889.7	888.7	885.6	885.6	885.6
37.5°	853.2	854.2	849.2	848.2	848.2	848.2	850.2	845.1	846.1	845.1
40°	811.7	812.7	809.6	806.6	807.6	805.6	808.6	803.6	803.6	803.6
42.5°	770.1	768.1	769.1	763.0	764.0	764.0	765.1	762.0	761.0	760.0
45°	727.6	725.5	724.5	721.5	721.5	720.5	720.5	716.4	716.4	716.4
47.5°	683.0	682.0	679.9	677.9	677.9	676.9	674.9	673.9	672.8	672.8
50°	640.4	637.4	634.3	635.4	634.3	633.3	631.3	630.3	629.3	628.3
52.5°	594.8	594.8	590.8	590.8	590.8	589.8	587.7	585.7	585.7	584.7
55°	550.2	549.2	546.2	545.2	546.2	545.2	543.1	541.1	541.1	540.1
57.5°	505.7	503.6	502.6	502.6	501.6	501.6	498.6	496.5	497.5	496.5
60°	460.1	460.1	459.0	458.0	458.0	457.0	454.0	454.0	454.0	453.0
62.5°	416.5	416.5	414.5	413.4	414.5	413.4	412.4	411.4	410.4	409.4
65°	370.9	371.9	369.9	370.9	370.9	368.9	368.9	367.8	367.8	366.8
67.5°	328.3	328.3	327.3	327.3	328.3	327.3	327.3	326.3	326.3	325.3
70°	284.7	286.8	285.8	285.8	285.8	284.7	284.7	284.7	283.7	284.7
72.5°	241.2	241.2	241.2	241.2	241.2	242.2	242.2	242.2	242.2	241.2
75°	200.6	201.7	200.6	201.7	202.7	202.7	202.7	202.7	203.7	202.7
77.5°	161.1	162.1	162.1	164.2	164.2	164.2	165.2	165.2	165.2	165.2
80°	123.6	124.6	125.7	127.7	127.7	129.7	130.7	130.7	130.7	130.7
82.5°	89.2	92.2	93.2	96.3	97.3	97.3	99.3	100.3	100.3	100.3
85°	61.8	64.9	66.9	68.9	70.9	70.9	73.0	73.0	74.0	74.0
87.5°	38.5	41.5	43.6	46.6	47.6	48.6	49.7	50.7	51.7	51.7
90°	21.3	23.3	25.3	27.4	27.4	28.4	29.4	30.4	31.4	31.4
92.5°	15.2	16.2	18.2	19.3	19.3	20.3	21.3	21.3	22.3	22.3
95°	17.2	18.2	18.2	19.3	19.3	19.3	20.3	20.3	20.3	20.3
97.5°	26.3	26.3	26.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
100°	34.5	35.5	35.5	35.5	36.5	36.5	36.5	36.5	35.5	35.5
102.5°	38.5	39.5	40.5	41.5	41.5	41.5	42.6	42.6	42.6	42.6
105°	43.6	43.6	44.6	45.6	45.6	45.6	46.6	46.6	46.6	46.6
107.5°	49.7	49.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
110°	56.7	56.7	56.7	55.7	56.7	55.7	55.7	55.7	55.7	55.7



TEST NUMBER: P395860

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	64.9	63.8	63.8	62.8	62.8	62.8	61.8	61.8	61.8	61.8
115°	78.0	73.0	70.9	68.9	68.9	68.9	67.9	67.9	67.9	67.9
117.5°	94.2	87.1	83.1	79.0	78.0	77.0	75.0	75.0	74.0	74.0
120°	111.5	104.4	98.3	93.2	91.2	90.2	87.1	85.1	83.1	83.1
122.5°	127.7	120.6	114.5	109.4	107.4	105.4	102.3	100.3	98.3	98.3
125°	143.9	136.8	130.7	125.7	122.6	120.6	117.5	115.5	113.5	113.5
127.5°	161.1	152.0	145.9	140.9	137.8	136.8	132.7	130.7	128.7	128.7
130°	180.4	169.2	161.1	155.0	153.0	151.0	147.9	145.9	143.9	143.9
132.5°	199.6	188.5	179.4	171.3	168.2	166.2	162.1	160.1	158.1	158.1
135°	217.9	207.7	198.6	190.5	187.5	184.4	180.4	176.3	174.3	174.3
137.5°	232.1	225.0	216.9	209.8	206.7	203.7	199.6	195.6	192.5	193.5
140°	244.2	238.1	233.1	228.0	225.0	222.9	218.9	215.8	212.8	212.8
142.5°	255.4	250.3	245.2	241.2	240.2	239.1	236.1	233.1	231.0	231.0
145°	265.5	262.5	258.4	253.3	252.3	251.3	248.3	246.2	245.2	245.2
147.5°	268.5	269.5	268.5	265.5	264.5	263.5	261.4	259.4	258.4	258.4
150°	266.5	270.6	272.6	272.6	272.6	272.6	272.6	270.6	269.5	269.5
152.5°	260.4	266.5	270.6	273.6	274.6	275.6	275.6	276.6	275.6	275.6
155°	253.3	259.4	265.5	268.5	270.6	271.6	273.6	274.6	275.6	274.6
157.5°	245.2	250.3	254.3	260.4	262.5	264.5	266.5	268.5	269.5	268.5
160°	238.1	242.2	245.2	249.3	250.3	252.3	254.3	255.4	257.4	256.4
162.5°	231.0	234.1	237.1	239.1	241.2	242.2	244.2	245.2	246.2	245.2
165°	226.0	228.0	229.0	231.0	232.1	233.1	234.1	235.1	235.1	235.1
167.5°	219.9	221.9	222.9	223.9	225.0	226.0	226.0	227.0	227.0	227.0
170°	214.8	215.8	216.9	217.9	217.9	218.9	218.9	218.9	219.9	218.9
172.5°	210.8	210.8	210.8	211.8	211.8	211.8	211.8	211.8	211.8	210.8
175°	208.7	208.7	207.7	207.7	207.7	207.7	207.7	206.7	205.7	204.7
177.5°	207.7	206.7	206.7	205.7	205.7	205.7	204.7	203.7	202.7	201.7
180°	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7	206.7

(END OF REPORT)