

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: P395854

Luminaire Tested: **I3-WL-40L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 5/6/2020

Test Information

Test Method: LM-79-08
Report Number: P395854
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 (2700K)
Description: CORELITE I3, DOWNLIGHT TRAY
4000 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: 3492.6 lumens
Efficiency: N/A
Efficacy: 95.2 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

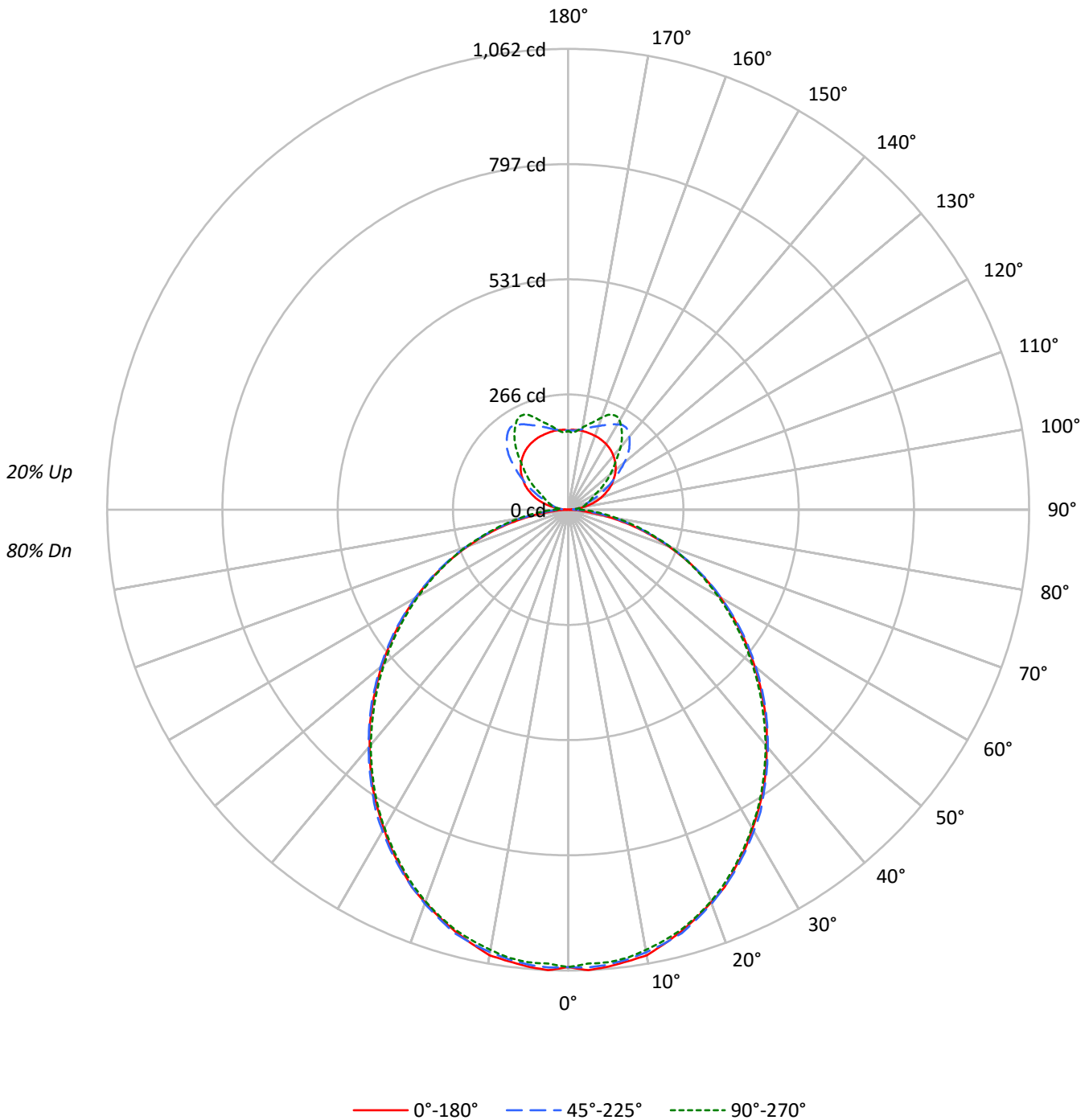
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	5794	5794	5794
5°	5810	5675	5614
10°	5776	5521	5430
15°	5660	5368	5237
20°	5548	5151	5011
25°	5415	4933	4761
30°	5260	4706	4505
35°	5114	4455	4241
40°	4930	4196	3966
45°	4755	3944	3676
50°	4566	3666	3384
55°	4367	3383	3086
60°	4145	3068	2779
65°	3890	2726	2449
70°	3529	2328	2102
75°	3040	1844	1688
80°	2320	1328	1260
85°	1209	793	854



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CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	2.9
10°-20°	282.5	8.1
20°-30°	418.3	12.0
30°-40°	488.9	14.0
40°-50°	491.1	14.1
50°-60°	431.6	12.4
60°-70°	323.4	9.3
70°-80°	183.9	5.3
80°-90°	58.1	1.7
90°-100°	20.9	0.6
100°-110°	51.0	1.5
110°-120°	84.7	2.4
120°-130°	118.9	3.4
130°-140°	137.0	3.9
140°-150°	130.8	3.7
150°-160°	98.4	2.8
160°-170°	55.7	1.6
170°-180°	17.6	0.5
0°-30°	800.4	22.9
0°-40°	1289.3	36.9
0°-60°	2212.0	63.3
0°-90°	2777.4	79.5
90°-120°	156.7	4.5
90°-150°	543.4	15.6
90°-180°	715.0	20.5
0°-180°	3492.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1046	1052	1049	1047	100
15°	1006	997	1010	1003	1002	284
25°	911	908	914	911	907	420
35°	785	779	788	781	780	490
45°	638	637	642	635	631	492
55°	483	485	487	481	475	432
65°	326	327	329	326	323	322
75°	166	169	173	178	178	176
85°	28	38	51	62	65	37
90°	1	5	16	24	28	2
95°	15	15	15	17	18	17
105°	60	51	38	40	41	62
115°	98	122	75	61	60	97
125°	129	178	135	108	100	116
135°	153	194	199	165	153	118
145°	170	193	232	222	216	106
155°	178	189	216	238	242	82
165°	183	186	196	204	207	52
175°	185	183	183	183	180	18
180°	182	182	182	182	182	



TEST NUMBER: P395854

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1062.2	1060.4	1056.0	1051.5	1050.6	1049.7	1049.7	1048.9	1048.9	1050.6	1056.0
5°	1056.9	1056.0	1051.5	1047.1	1046.2	1046.2	1045.3	1045.3	1045.3	1047.1	1052.4
7.5°	1049.7	1048.0	1043.5	1039.0	1038.2	1038.2	1038.2	1037.3	1038.2	1039.0	1045.3
10°	1042.6	1041.7	1037.3	1031.9	1030.1	1030.1	1029.2	1027.4	1027.4	1029.2	1035.5
12.5°	1024.8	1023.9	1019.4	1015.9	1015.9	1016.7	1016.7	1017.6	1017.6	1019.4	1023.9
15°	1006.0	1005.2	1000.7	997.1	997.1	997.1	996.2	996.2	997.1	1002.5	1010.5
17.5°	985.5	984.6	981.1	977.5	977.5	977.5	976.6	976.6	977.5	980.2	988.2
20°	963.2	962.3	958.8	955.2	955.2	955.2	954.3	955.2	955.2	958.8	965.9
22.5°	941.8	940.0	935.6	932.0	930.2	930.2	930.2	929.3	931.1	933.8	940.9
25°	910.6	909.7	907.9	905.3	907.0	907.9	906.2	904.4	904.4	907.9	914.2
27.5°	882.1	880.3	877.6	874.9	873.2	874.0	874.9	876.7	879.4	880.3	885.6
30°	849.1	848.2	845.5	841.9	842.8	843.7	843.7	843.7	845.5	853.5	855.3
32.5°	817.0	816.1	813.4	809.8	810.7	811.6	810.7	811.6	813.4	817.0	825.0
35°	784.9	783.1	780.4	779.5	778.6	778.6	778.6	779.5	780.4	783.1	787.5
37.5°	748.3	746.5	744.7	742.0	743.8	745.6	746.5	745.6	746.5	750.1	751.9
40°	711.7	710.8	709.0	707.3	708.2	709.0	708.2	710.8	712.6	714.4	715.3
42.5°	676.9	675.2	673.4	672.5	672.5	673.4	673.4	675.2	675.2	679.6	678.7
45°	637.7	636.8	635.9	635.9	636.8	636.8	636.8	637.7	638.6	641.3	642.2
47.5°	599.3	598.5	598.5	598.5	598.5	599.3	600.2	602.9	601.1	602.0	602.9
50°	561.0	560.1	560.1	560.1	561.9	561.9	563.7	564.6	565.5	563.7	564.6
52.5°	521.8	520.9	522.6	522.6	524.4	524.4	527.1	524.4	526.2	525.3	525.3
55°	483.4	482.5	484.3	483.4	485.2	485.2	487.0	487.9	487.0	487.0	487.0
57.5°	444.2	443.3	444.2	445.0	445.9	445.9	448.6	448.6	445.9	447.7	446.8
60°	404.9	404.0	404.9	405.8	406.7	406.7	407.6	405.8	407.6	408.5	407.6
62.5°	365.7	364.8	366.6	365.7	366.6	367.5	367.5	370.1	369.2	369.2	368.3
65°	326.4	325.5	325.5	325.5	326.4	327.3	328.2	329.1	329.1	330.0	329.1
67.5°	286.3	285.4	286.3	285.4	286.3	287.2	289.0	289.9	289.9	290.8	289.9
70°	245.3	246.2	245.3	246.2	247.1	247.9	248.8	250.6	250.6	250.6	250.6
72.5°	205.1	204.2	204.2	203.3	205.1	206.0	206.9	209.6	209.6	210.5	210.5
75°	165.9	164.1	165.0	164.1	167.7	168.6	168.6	171.2	172.1	173.9	173.0
77.5°	127.5	127.5	125.8	128.4	129.3	131.1	132.9	134.7	135.6	138.2	138.2
80°	91.0	91.0	90.1	91.9	95.4	96.3	99.0	99.9	102.6	104.4	105.2
82.5°	58.0	58.0	58.0	60.6	63.3	64.2	66.9	69.6	71.4	74.0	74.9
85°	28.5	30.3	30.3	33.9	35.7	37.5	38.4	41.9	44.6	48.2	50.8
87.5°	8.9	9.8	10.7	12.5	16.1	16.9	18.7	22.3	25.0	28.5	31.2
90°	0.9	0.9	1.8	2.7	4.5	5.4	7.1	8.9	11.6	14.3	16.1
92.5°	6.2	6.2	7.1	7.1	7.1	7.1	7.1	8.0	8.9	10.7	11.6
95°	15.2	24.1	14.3	13.4	15.2	15.2	16.1	15.2	15.2	15.2	15.2
97.5°	25.0	44.6	29.4	20.5	19.6	20.5	20.5	22.3	23.2	24.1	24.1
100°	36.6	56.2	51.7	33.9	27.6	26.8	26.8	26.8	27.6	28.5	29.4
102.5°	48.2	64.2	74.0	52.6	39.2	35.7	33.9	33.0	32.1	33.0	33.0
105°	59.8	72.2	91.0	71.4	56.2	50.8	45.5	39.2	38.4	38.4	38.4
107.5°	70.5	80.3	103.5	92.8	73.1	67.8	61.5	51.7	45.5	44.6	43.7
110°	80.3	88.3	112.4	110.6	91.9	83.8	78.5	67.8	58.9	52.6	49.9



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CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	89.2	96.3	118.6	125.8	112.4	102.6	94.5	83.8	74.0	66.0	59.8
115°	98.1	104.4	124.0	138.2	130.2	122.2	113.3	99.9	90.1	82.1	74.9
117.5°	107.0	112.4	129.3	147.2	145.4	140.0	132.9	116.8	105.2	97.2	89.2
120°	115.1	120.4	134.7	153.4	158.8	154.3	149.8	135.6	121.3	112.4	105.2
122.5°	122.2	126.6	140.0	158.8	168.6	167.7	163.2	153.4	139.1	128.4	119.5
125°	129.3	133.8	145.4	162.3	175.7	178.4	176.6	168.6	157.9	145.4	134.7
127.5°	136.5	140.0	150.7	165.9	181.1	186.4	187.3	181.9	173.9	163.2	151.6
130°	142.7	146.3	155.2	168.6	184.6	190.9	194.4	193.5	187.3	180.2	168.6
132.5°	148.1	150.7	159.6	171.2	186.4	193.5	198.9	203.3	198.9	193.5	185.5
135°	153.4	156.1	163.2	173.9	187.3	194.4	201.6	208.7	209.6	205.1	198.9
137.5°	157.9	159.6	166.8	175.7	187.3	194.4	201.6	211.4	216.7	214.9	209.6
140°	162.3	164.1	169.5	178.4	188.2	194.4	200.7	212.3	219.4	222.1	219.4
142.5°	165.9	167.7	172.1	180.2	188.2	193.5	199.8	210.5	220.3	225.6	227.4
145°	169.5	170.3	174.8	181.1	188.2	192.6	198.0	208.7	218.5	226.5	231.9
147.5°	172.1	173.0	175.7	181.9	188.2	191.8	196.2	205.1	214.9	223.9	231.9
150°	174.8	174.8	177.5	181.9	188.2	190.9	194.4	202.5	210.5	219.4	226.5
152.5°	176.6	176.6	179.3	182.8	187.3	190.0	193.5	199.8	206.9	214.9	222.1
155°	178.4	178.4	180.2	182.8	187.3	189.1	191.8	197.1	203.3	209.6	215.8
157.5°	180.2	180.2	181.1	183.7	186.4	188.2	190.9	195.3	199.8	205.1	210.5
160°	181.1	181.1	181.9	183.7	185.5	187.3	189.1	192.6	197.1	200.7	205.1
162.5°	181.9	181.9	182.8	183.7	185.5	186.4	187.3	190.9	193.5	197.1	200.7
165°	182.8	182.8	182.8	183.7	184.6	185.5	186.4	188.2	190.9	193.5	196.2
167.5°	183.7	183.7	183.7	183.7	184.6	184.6	185.5	186.4	188.2	190.0	191.8
170°	184.6	183.7	183.7	184.6	183.7	183.7	184.6	185.5	185.5	187.3	188.2
172.5°	184.6	184.6	183.7	183.7	183.7	183.7	183.7	183.7	183.7	184.6	185.5
175°	184.6	184.6	183.7	183.7	183.7	182.8	182.8	182.8	182.8	182.8	182.8
177.5°	184.6	184.6	183.7	183.7	182.8	182.8	182.8	182.8	182.8	182.8	182.8
180°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2	1054.2
2.5°	1061.3	1056.9	1055.1	1054.2	1053.3	1052.4	1050.6	1048.9	1047.1	1047.1
5°	1056.9	1052.4	1050.6	1049.7	1048.9	1048.0	1047.1	1047.1	1047.1	1047.1
7.5°	1049.7	1045.3	1043.5	1042.6	1042.6	1041.7	1041.7	1041.7	1040.8	1041.7
10°	1039.0	1034.6	1033.7	1032.8	1031.9	1030.1	1030.1	1030.1	1029.2	1030.1
12.5°	1025.7	1021.2	1020.3	1019.4	1018.5	1017.6	1017.6	1016.7	1016.7	1017.6
15°	1012.3	1006.0	1004.3	1004.3	1003.4	1002.5	1003.4	1002.5	1002.5	1002.5
17.5°	992.7	990.0	987.3	985.5	984.6	983.7	983.7	982.9	982.9	982.9
20°	966.8	966.8	966.8	962.3	961.4	960.6	960.6	960.6	960.6	960.6
22.5°	941.8	937.4	940.9	938.3	936.5	934.7	935.6	935.6	935.6	935.6
25°	914.2	910.6	911.5	912.4	910.6	907.9	907.9	907.9	907.9	907.0
27.5°	884.7	882.1	881.2	882.1	883.9	882.1	879.4	876.7	877.6	877.6
30°	852.6	851.7	850.9	849.1	850.9	851.7	847.3	846.4	846.4	846.4
32.5°	820.5	819.6	817.0	815.2	816.1	817.9	816.1	814.3	814.3	814.3
35°	788.4	784.9	782.2	781.3	781.3	783.1	782.2	779.5	779.5	779.5
37.5°	751.0	751.9	747.4	746.5	746.5	746.5	748.3	743.8	744.7	743.8
40°	714.4	715.3	712.6	709.9	710.8	709.0	711.7	707.3	707.3	707.3
42.5°	677.8	676.0	676.9	671.6	672.5	672.5	673.4	670.7	669.8	668.9
45°	640.4	638.6	637.7	635.0	635.0	634.1	634.1	630.6	630.6	630.6
47.5°	601.1	600.2	598.5	596.7	596.7	595.8	594.0	593.1	592.2	592.2
50°	563.7	561.0	558.3	559.2	558.3	557.4	555.6	554.8	553.9	553.0
52.5°	523.5	523.5	520.0	520.0	520.0	519.1	517.3	515.5	515.5	514.6
55°	484.3	483.4	480.7	479.8	480.7	479.8	478.0	476.3	476.3	475.4
57.5°	445.0	443.3	442.4	442.4	441.5	441.5	438.8	437.0	437.9	437.0
60°	404.9	404.9	404.0	403.1	403.1	402.2	399.6	399.6	399.6	398.7
62.5°	366.6	366.6	364.8	363.9	364.8	363.9	363.0	362.1	361.2	360.3
65°	326.4	327.3	325.5	326.4	326.4	324.6	324.6	323.8	323.8	322.9
67.5°	289.0	289.0	288.1	288.1	289.0	288.1	288.1	287.2	287.2	286.3
70°	250.6	252.4	251.5	251.5	251.5	250.6	250.6	250.6	249.7	250.6
72.5°	212.3	212.3	212.3	212.3	212.3	213.2	213.2	213.2	213.2	212.3
75°	176.6	177.5	176.6	177.5	178.4	178.4	178.4	178.4	179.3	178.4
77.5°	141.8	142.7	142.7	144.5	144.5	144.5	145.4	145.4	145.4	145.4
80°	108.8	109.7	110.6	112.4	112.4	114.2	115.1	115.1	115.1	115.1
82.5°	78.5	81.2	82.1	84.7	85.6	85.6	87.4	88.3	88.3	88.3
85°	54.4	57.1	58.9	60.6	62.4	62.4	64.2	64.2	65.1	65.1
87.5°	33.9	36.6	38.4	41.0	41.9	42.8	43.7	44.6	45.5	45.5
90°	18.7	20.5	22.3	24.1	24.1	25.0	25.9	26.8	27.6	27.6
92.5°	13.4	14.3	16.1	16.9	16.9	17.8	18.7	18.7	19.6	19.6
95°	15.2	16.1	16.1	16.9	16.9	16.9	17.8	17.8	17.8	17.8
97.5°	23.2	23.2	23.2	22.3	22.3	22.3	22.3	22.3	22.3	22.3
100°	30.3	31.2	31.2	31.2	32.1	32.1	32.1	32.1	31.2	31.2
102.5°	33.9	34.8	35.7	36.6	36.6	36.6	37.5	37.5	37.5	37.5
105°	38.4	38.4	39.2	40.1	40.1	40.1	41.0	41.0	41.0	41.0
107.5°	43.7	43.7	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
110°	49.9	49.9	49.9	49.1	49.9	49.1	49.1	49.1	49.1	49.1



TEST NUMBER: P395854

CATALOG NUMBER: I3-WL-40L82765-1D-UNV-W2A-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	57.1	56.2	56.2	55.3	55.3	55.3	54.4	54.4	54.4	54.4
115°	68.7	64.2	62.4	60.6	60.6	60.6	59.8	59.8	59.8	59.8
117.5°	82.9	76.7	73.1	69.6	68.7	67.8	66.0	66.0	65.1	65.1
120°	98.1	91.9	86.5	82.1	80.3	79.4	76.7	74.9	73.1	73.1
122.5°	112.4	106.1	100.8	96.3	94.5	92.8	90.1	88.3	86.5	86.5
125°	126.6	120.4	115.1	110.6	107.9	106.1	103.5	101.7	99.9	99.9
127.5°	141.8	133.8	128.4	124.0	121.3	120.4	116.8	115.1	113.3	113.3
130°	158.8	148.9	141.8	136.5	134.7	132.9	130.2	128.4	126.6	126.6
132.5°	175.7	165.9	157.9	150.7	148.1	146.3	142.7	140.9	139.1	139.1
135°	191.8	182.8	174.8	167.7	165.0	162.3	158.8	155.2	153.4	153.4
137.5°	204.2	198.0	190.9	184.6	181.9	179.3	175.7	172.1	169.5	170.3
140°	214.9	209.6	205.1	200.7	198.0	196.2	192.6	190.0	187.3	187.3
142.5°	224.8	220.3	215.8	212.3	211.4	210.5	207.8	205.1	203.3	203.3
145°	233.7	231.0	227.4	223.0	222.1	221.2	218.5	216.7	215.8	215.8
147.5°	236.3	237.2	236.3	233.7	232.8	231.9	230.1	228.3	227.4	227.4
150°	234.6	238.1	239.9	239.9	239.9	239.9	239.9	238.1	237.2	237.2
152.5°	229.2	234.6	238.1	240.8	241.7	242.6	242.6	243.5	242.6	242.6
155°	223.0	228.3	233.7	236.3	238.1	239.0	240.8	241.7	242.6	241.7
157.5°	215.8	220.3	223.9	229.2	231.0	232.8	234.6	236.3	237.2	236.3
160°	209.6	213.2	215.8	219.4	220.3	222.1	223.9	224.8	226.5	225.6
162.5°	203.3	206.0	208.7	210.5	212.3	213.2	214.9	215.8	216.7	215.8
165°	198.9	200.7	201.6	203.3	204.2	205.1	206.0	206.9	206.9	206.9
167.5°	193.5	195.3	196.2	197.1	198.0	198.9	198.9	199.8	199.8	199.8
170°	189.1	190.0	190.9	191.8	191.8	192.6	192.6	192.6	193.5	192.6
172.5°	185.5	185.5	185.5	186.4	186.4	186.4	186.4	186.4	186.4	185.5
175°	183.7	183.7	182.8	182.8	182.8	182.8	182.8	181.9	181.1	180.2
177.5°	182.8	181.9	181.9	181.1	181.1	181.1	180.2	179.3	178.4	177.5
180°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9

(END OF REPORT)